

# Annual Cumulated Index

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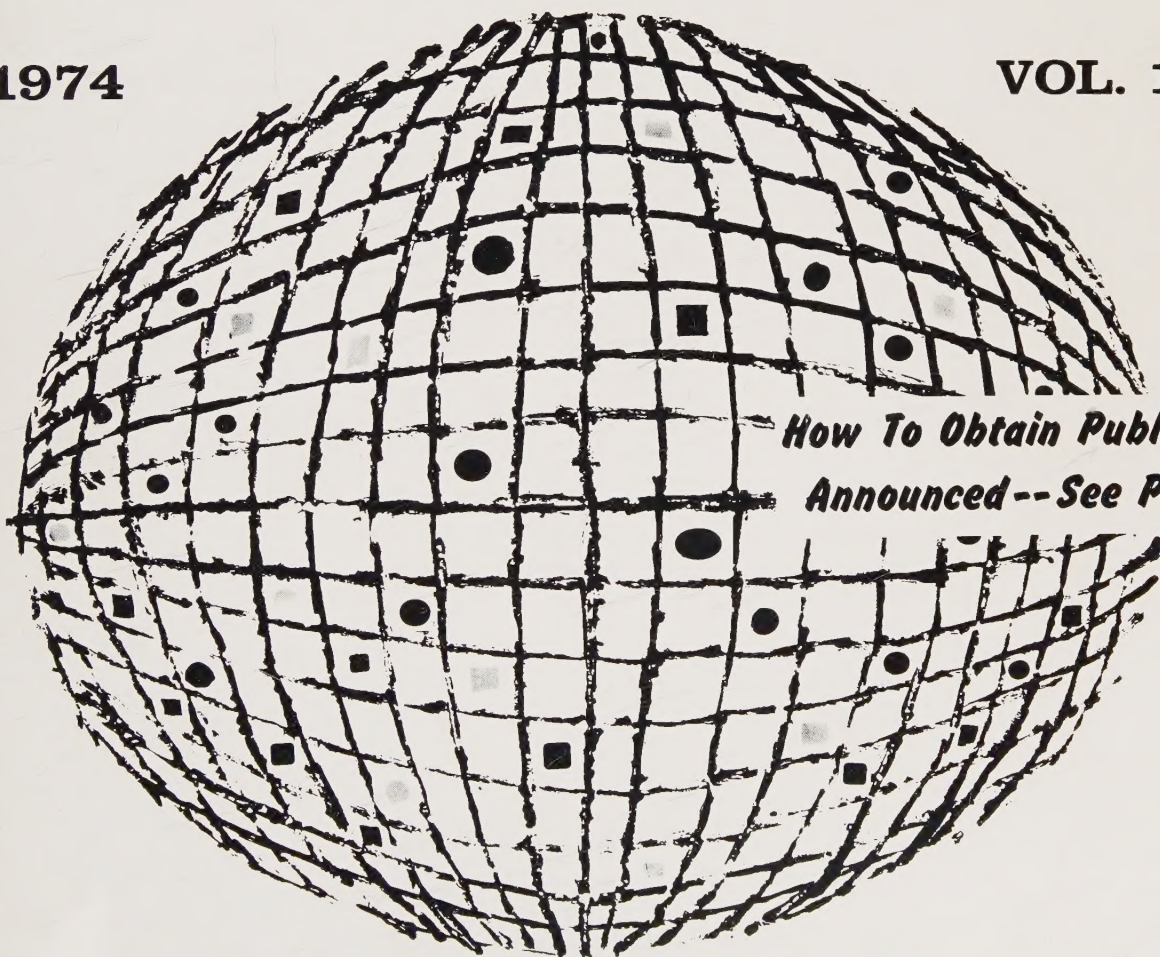
# INTERNATIONAL AEROSPACE ABSTRACTS

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1974

VOL. 14



*How To Obtain Publications  
Announced -- See Page IV*

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# INTERNATIONAL AEROSPACE ABSTRACTS

## ANNUAL CUMULATED INDEX

### PART 1

PERIODICALS SCANNED, SUBJECT INDEX, A – L

VOLUME 14

JANUARY – DECEMBER

1974

ACCESSION NUMBERS A74-10001 to A74-46768

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## INTRODUCTION

INTERNATIONAL AEROSPACE ABSTRACTS (IAA) is an abstracting and indexing service covering the world's published literature in the field of aeronautics and space science and technology. IAA is issued semimonthly, on the 1st and 15th of each month.

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The following types of publications are covered in IAA:

- Periodicals (including government-sponsored journals) and books.
- Meeting papers and conference proceedings issued by professional societies and academic organizations.
- Translations of journals and journal articles.

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Abstracts and indexes of report literature are issued in SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS (STAR), which is published by the Scientific and Technical Information Office, National Aeronautics and Space Administration.

By special arrangement between NASA and the American Institute of Aeronautics and Astronautics, IAA is issued in coordination with the twice-monthly schedule of STAR, which appears on the 8th and 23rd of each month.

IAA and STAR both utilize identical subject categories and indexes, which are described below.

Thus the two services provide comprehensive access to the national and international unclassified report and published literature of current significance to aerospace science and technology.

### Arrangement of the Semimonthly Issues

IAA is arranged in two major sections:

- (1) Abstracts Section. This section contains complete bibliographic citations with informative abstracts as required, arranged by appropriate subject categories to facilitate scanning. The subject categories are numbered from 01 to 34, and the scope of each category is outlined in the Table of Contents and again at the beginning of each category in the Abstracts Section. Each entry is prefixed by the IAA accession number.
- (2) Index Section. Five indexes are contained in this section: Subject, Personal Author, Contract Number, Meeting Paper and Report Number, and Accession Number. Each index is prefaced by explanatory notes.

### Cumulated Indexes

The Semiannual Cumulated Index is issued promptly at the end of the first six months and the Annual Cumulated Index is issued promptly at the end of the twelve-month period.

Each cumulated index contains the following sections: A—Subject Index, B—Personal Author Index, C—Contract Number Index, D—Meeting Paper and Report Number Index, and E—Accession Number Index.

### Indexing Vocabulary

The Preliminary Edition of the NASA THESAURUS (December 1967) (NASA SP-7030) is the authority for the indexing vocabulary that appears in the subject indexes to STAR and IAA. The NASA Thesaurus should be consulted for a total picture of the current indexing vocabulary and associated cross-reference structure. Copies of the NASA Thesaurus may be obtained from the National Technical Information Service or the U.S. Government Printing Office at a price of \$8.50 for the three-volume set. A one-volume NASA THESAURUS ALPHABETICAL UPDATE (September 1971) of 623 pages is available from the National Technical Information Service (NTIS), Springfield, Va. 22151, for \$6.00.

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Information regarding SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS and the availability of INTERNATIONAL AEROSPACE ABSTRACTS to organizations having contractual arrangements with NASA may be obtained from the following address:

National Aeronautics and Space Administration  
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# how to obtain publications announced

Documents announced are available from the AIAA Technical Information Service as follows:

- Paper copies of accessions announced in IAA and STAR and of other documents in the TIS library are available at \$5.00 per document up to a maximum of 20 pages. The charge for each additional page is \$0.25.
- Microfiche of documents announced in IAA are available at the rate of \$1.50 per microfiche on demand, and at the rate of \$0.75 per microfiche for standing orders for all IAA microfiche. Documents available in this manner are identified by the symbol # following the accession number in the Abstracts Section and in the Meeting Paper and Report Number and the Accession Number Indexes.
- Minimum air-mail postage to foreign countries is \$1.00.
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## CROSS REFERENCES

The subject index includes two types of cross references to aid the user of the index in locating the material being sought:

1. "USE" references (U) direct the user to alternate headings under which material on the subject will be found, for example

COLUMBIUM  
U NIOBIUM

2. "NARROWER TERM" references (NT) refer the user to more specific headings in the same subject area, for example

LUMINESCENCE  
NT ELECTROLUMINESCENCE



The periodicals listed in this section were scanned during the preparation of *International Aerospace Abstracts* for 1974. The periodicals were received regularly in all but a few instances. In the case of titles preceded by an asterisk, only the articles announced in *International Aerospace Abstracts* are available. All announced articles can be obtained from the AIAA Technical Information Service.

BM — Bimonthly  
BW — Biweekly  
Irreg. — Irregular  
M — Monthly

Q — Quarterly  
SA — Semiannual  
SM — Semimonthly  
W — Weekly

*Abastumanskaia Astrofizicheskaia Observatoriia, Biulleten'*. Akademiia Nauk Gruzinskoi SSR, Tiflis. Irreg.

*Academia Scientiarum Fennica, Annales, Series A VI — Physica*. Academia Scientiarum Fennica, Helsinki. Irreg.

*Académie des Sciences (Paris), Comptes Rendus, Série A — Sciences Mathématiques, Série B — Sciences Physiques*. Académie des Sciences; Gauthier-Villars, Paris. W

*Académie des Sciences (Paris), Comptes Rendus, Série C — Sciences Chimiques*. Académie des Sciences; Gauthier-Villars, Paris. W

*Académie Polonaise des Sciences, Bulletin, Série des Sciences Mathématiques, Astronomiques et Physiques*. Académie Polonaise des Sciences; Państwowe Wydawnictwo Naukowe, Warsaw. M

*Académie Polonaise des Sciences, Bulletin, Série des Sciences Techniques*. Académie Polonaise des Sciences; Państwowe Wydawnictwo Naukowe, Warsaw. M

*Académie Royale de Belgique, Classe des Sciences, Bulletin*. Académie Royale de Belgique; Office International de Librairie, Brussels. M

*Academy of Sciences, USSR, Bulletin, Physical Series (Akademiia Nauk SSSR, Izvestiia, Serii Fizicheskaia)*. Columbia Technical Translations, White Plains, N. Y. M

*Academy of Sciences, USSR, Izvestiya, Atmospheric and Oceanic Physics (Akademiia Nauk SSSR, Izvestiia, Fizika Atmosfery i Okeana)*. American Geophysical Union, Washington, D.C. M

*Accademia di Scienze e Lettere, Istituto Lombardo, Rendiconti, Serie della Classe di Scienze Matematiche e Naturali, Sezione A — Scienze Matematiche, Fisiche, Chimiche e Geologiche*. Istituto Lombardo de Scienze e Lettere, Milan. Irreg.

*Accademia Nazionale dei Lincei, Atti, Rendiconti — Classe di Scienze Fisiche, Matematiche e Naturali*. Accademia Nazionale dei Lincei, Rome. BM

*Acoustical Society of America, Journal*. Acoustical Society of America; American Institute of Physics, Inc., New York. M

*Acta Astronautica*. International Academy of Astronautics; Pergamon Press, Ltd., Oxford. M

*Acta Astronomica*. Polska Akademia Nauk; Państwowe Wydawnictwo Naukowe, Warsaw. Q

*Acta Astronomica Sinica*. Academia Sinica, Peking. Irreg.

*Acta Biologica et Medica Germanica*. Akademie-Verlag GmbH, Berlin, East Germany. M

*Acta Cardiologica*. Editions Acta Medica Belgica, Brussels. BM

*Acta Cardiologica, Supplementum*. Hôtel des Sociétés Scientifiques, Brussels. Annual

*Acta Cosmologica*. Uniwersytet Jagielloński, Zeszyty Naukowe; Państwowe Wydawnictwo Naukowe, Warsaw. Irreg.

\**Acta Crystallographica*. Munksgaard, Copenhagen. BM

*Acta Electronica*. Laboratoires d'Electronique et de Physique Appliquée, Limeil-Brévannes (Val-de-Marne), France. Q

*Acta Geophysica Polonica*. Polska Akademia Nauk; Państwowe Wydawnictwo Naukowe, Warsaw. Q

*Acta Mathematica*. Hungarian Academy of Sciences, Budapest. Irreg.

*Acta Mechanica*. Springer Verlag, Vienna. 8 issues per year

*Acta Metallurgica*. Pergamon Press, Inc., Elmsford, N. Y. M

*Acta Physica*. Akadémiai Kiadó, Budapest. BM

*Acta Physica Austriaca*. Österreichische Akademie der Wissenschaften; Springer Verlag, Vienna. Q

*Acta Physica Polonica*. Polska Akademia Nauk, Instytut Fizyki and Polskie Towarzystwo Fizyczne, Warsaw.

*Acta Physica Sinica*. Academia Sinica, Peking. BM

*Acta Physica Slovaca*. Slovenská Akadémia Vied, Bratislava. Q

*Acta Physiologica Scandinavica*. Scandinavian Physiological Society, Stockholm. 3 vols. per year

*Acta Polytechnica Scandinavica, Civil Engineering and Building Construction Series*. Finnish Academy of Technical Sciences, Helsinki. Irreg.

*Acta Polytechnica Scandinavica, Mechanical Engineering Series*. Finnish Academy of Technical Sciences, Helsinki. Irreg.

*Acta Psychologica*. North-Holland Publishing Co., Amsterdam. M



- Acta Technica.* Akadémiai Kiadó, Budapest. 4 vols. per year
- Acta Technica ČSAV.* Československá Akademie Věd, Prague. BM
- Acustica.* S. Hirzel Verlag, KG, Stuttgart, West Germany. Irreg.
- Advances in Physics.* Taylor & Francis, Ltd., London. BM
- AEG-Telefunken, Technische Mitteilungen.* AEG-Telefunken, Berlin, West Germany. BM
- Aero-Revue.* Aero-Club der Schweiz and OSTIV; National-Zeitung AG, Basel. M
- Aerodinamika Razrezhennykh Gazov.* Izdatel'stvo Leningradskogo Universiteta, Leningrad. Irreg.
- Aeronautical Journal.* Royal Aeronautical Society, London. M
- Aeronautical Quarterly.* Royal Aeronautical Society, London. Q
- Aeronautical Society of India, Journal.* Aeronautical Society of India, New Delhi. Q
- L'Aéronautique et l'Astronautique.* Association Française des Ingénieurs et Techniciens de l'Aéronautique et de l'Espace and Société Française de l'Astronautique; Editions Air & Cosmos, Paris. M
- Aerospace Medicine.* Aerospace Medical Association, Washington, D.C. M
- L'Aerotecnica — Missili e Spazio.* Associazione Italiana di Aeronautica e Astronautica; Tamburini Editore S.p.A., Milan. BM
- AFCIQ, Bulletin.* Association Française pour le Contrôle Industriel de Qualité, Paris. Q
- AIAA Journal.* American Institute of Aeronautics and Astronautics, Inc., New York. M
- AIAA Student Journal.* American Institute of Aeronautics and Astronautics, Inc., New York. Q
- Air et Cosmos.* Paris. W
- Air University Review.* Aerospace Studies Institute, Maxwell Air Force Base, Ala. BM
- Aircraft Engineering.* Bunhill Publications, Ltd., London. M
- Airport Forum.* Bauverlag GmbH, Wiesbaden, West Germany. Q
- Akademiia Nauk Armianskoi SSR, Doklady.* Akademiia Nauk Armianskoi SSR, Yerevan. 10 issues per year
- Akademiia Nauk Armianskoi SSR, Izvestiia, Fizika.* Akademiia Nauk Armianskoi SSR, Yerevan. BM
- Akademiia Nauk Armianskoi SSR, Izvestiia, Mekhanika.* Akademiia Nauk Armianskoi SSR, Yerevan. BM
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- Akademiia Nauk SSSR, Izvestiia, Fizika Atmosfery i Okeana.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. M
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- Akademiia Nauk Ukrain'skoi RSR, Dopovidi, Seriiia A — Fiziko-Tekhnichni i Matematichni Nauki.* Akademiia Nauk Ukrain'skoi RSR; Izdatel'stvo Naukova Dumka, Kiev. M
- Akademiia Nauk Ukrain'skoi RSR, Dopovidi, Seriiia B — Geologiiia, Geofizika, Khimiiia i Biologiiia.* Akademiia Nauk Ukrain'skoi RSR; Izdatel'stvo Naukova Dumka, Kiev. M
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- Akademiia Navuk BSSR, Vesti, Seryia Fizika-Tekhnichnykh Navuk.* Akademiia Navuk Belaruskai SSR, Minsk. Q
- Akusticheskii Zhurnal.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. Q
- Algoritmy i Algoritmicheskie Iazyki.* Akademiia Nauk SSSR, Vychislitel'nyi Tsentr, Moscow. Irreg.
- Alta Frequenza.* Associazione Elettrotecnica ed Elettronica Italiana, Milan. M
- Alta Frequenza (English Edition).* Associazione Elettrotecnica ed Elettronica Italiana, Milan. M
- American Ceramic Society Bulletin.* American Ceramic Society, Inc., Columbus, Ohio. M
- American Ceramic Society, Journal.* American Ceramic Society, Inc., Columbus, Ohio. M
- \*American Chemical Society, Journal.* American Chemical Society, Washington, D.C. BW
- American Heart Journal.* C. V. Mosby Co., St. Louis, Mo. M
- American Helicopter Society, Journal.* American Helicopter Society, Inc., New York. Q
- American Industrial Hygiene Association Journal.* American Industrial Hygiene Association, Southfield, Mich. BM
- American Journal of Cardiology.* American College of Cardiology; Reuben H. Donnelley Corp., New York. M
- American Journal of Physics.* American Association of Physics Teachers; American Institute of Physics, Inc., New York. M
- American Journal of Physiology.* American Physiological Society, Bethesda, Md. M
- American Journal of Psychology.* University of Illinois Press, Urbana, Ill. Q
- American Meteorological Society, Bulletin.* American Meteorological Society, Boston. M
- \*American Mineralogist.* Mineralogical Society of America, Washington, D. C. BM
- \*American Scientist.* American Scientist, New Haven, Conn. M
- American Society of Civil Engineers, Engineering Mechanics Division, Journal.* American Society of Civil Engineers, New York. BM
- American Society of Civil Engineers, Structural Division, Journal.* American Society of Civil Engineers, New York. M
- \*American Statistical Association, Journal.* American Statistical Association, Washington, D.C. Q
- Analogovaia iologo-Tsifrovaia Vychislitel'naia Tekhnika.* Izdatel'stvo Sovetskoe Radio, Moscow. Irreg.
- \*Analytical Biochemistry.* Academic Press, Inc., New York. M
- \*Analytical Chemistry.* American Chemical Society, Washington, D.C. M
- Angewandte Informatik.* Friedr. Vieweg & Sohn GmbH, Braunschweig. M
- Annalen der Physik.* Johann Ambrosius Barth Verlag, Leipzig, East Germany. Irreg.
- Annales de Géophysique.* Centre National de la Recherche Scientifique, Paris. Q
- Annales des Télécommunications.* Centre National d'Etudes des Télécommunications, Issy-les-Moulineaux (Hauts-de-Seine), France. BM
- \*Annals of Biomedical Engineering.* Academic Press, Inc., New York. Irreg.
- Annals of Physics.* Academic Press, Inc., New York. M
- Antenny.* Nauchno-Tekhnicheskoe Obshchestvo Radiotekhniki i Elektrovsviazi imeni A. S. Popova; Izdatel'stvo Sviaz', Moscow. Irreg.
- APL Technical Digest.* Applied Physics Laboratory, Johns Hopkins University, Silver Spring, Md. BM
- Aplikace Matematiky.* Československá Akademie Věd, Matematický Ústav, Prague. BM
- Applicable Analysis.* Gordon & Breach Science Publishers, Ltd., London. Q
- Applied Mechanics Reviews.* American Society of Mechanical Engineers, New York. M
- Applied Microbiology.* American Society for Microbiology, Bethesda, Md. M
- Applied Optics.* Optical Society of America; American Institute of Physics, Inc., New York. M
- Applied Physics.* Springer Verlag, Berlin, West Germany. BM
- Applied Physics Letters.* American Institute of Physics, Inc., New York. SM
- Applied Scientific Research.* Martinus Nijhoff, The Hague. Irreg.
- Applied Spectroscopy.* Society for Applied Spectroscopy, Baltimore, Md. BM
- Archiv für Elektronik und Übertragungstechnik.* S. Hirzel Verlag, KG, Stuttgart, West Germany. Q
- Archiv für Meteorologie, Geophysik und Bioklimatologie, Serie A — Meteorologie und Geophysik.* Springer Verlag, Vienna. Irreg.
- Archiv für technisches Messen/Messtechnische Praxis.* Verlag R. Oldenbourg, Munich. M
- Archive for Rational Mechanics and Analysis.* Springer Verlag, Berlin, West Germany. Irreg.
- Archives des Sciences.* Genève, Société de Physique et d'Histoire Naturelle; Librairie Payot S.A., Geneva. 3 issues per year
- \*Archives of Environmental Contamination and Toxicology.* Springer Verlag, New York. Q
- Archives of Environmental Health.* American Medical Association, Chicago. M
- Archiwum Akustyki.* Polska Akademia Nauk, Komitet Akustyki, Polskie Towarzystwo Akustyczne; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- Archiwum Automatyki i Telemekhaniki.* Polska Akademia Nauk; Państwowe Wydawnictwo Naukowe, Warsaw. Q
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- Archiwum Mechaniki Stosowanej.* Polska Akademia Nauk, Instytut Podstawowych Problemów Techniki; Państwowe Wydawnictwo Naukowe, Warsaw. BM
- Archiwum Procesów Spalania.* Polska Akademia Nauk Sekcja Spalania; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- Arizona, University, Lunar and Planetary Laboratory, Communications.* University of Arizona, Tucson. Irreg.



- Artificial Satellites.* Polish Academy of Sciences, Warsaw. Q
- ASCE, Transportation Engineering Journal.* American Society of Civil Engineers, New York. Q
- ASLE Transactions.* American Society of Lubrication Engineers; Academic Press, Inc., New York. M
- ASME, Transactions, Series A — Journal of Engineering for Power.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series B — Journal of Engineering for Industry.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series C — Journal of Heat Transfer.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series E — Journal of Applied Mechanics.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series F — Journal of Lubrication Technology.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series G — Journal of Dynamic Systems, Measurement, and Control.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series H — Journal of Engineering Materials and Technology.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series I — Journal of Fluids Engineering.* American Society of Mechanical Engineers, New York. Q
- ASME, Transactions, Series J — Journal of Pressure Vessel Technology.* American Society of Mechanical Engineers, New York. Q
- Association for Computing Machinery, Journal.* Association for Computing Machinery, Inc., New York. Q
- \* *Association for the Advancement of Medical Instrumentation, Journal.* Williams & Wilkins Co., Baltimore, Md. BM
- Association Technique Maritime et Aéronautique, Bulletin.* Association Technique Maritime et Aéronautique, Paris. Annual
- ASTM Standardization News.* American Society for Testing and Materials, Philadelphia. M
- Astrofizika.* Akademiia Nauk Armianskoi SSR, Yerevan. Q
- Astrometriia i Astrofizika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Astronautica Acta.* International Academy of Astronautics; Pergamon Press, Ltd., Oxford. BM
- Astronautics and Aeronautics.* American Institute of Aeronautics and Astronautics, Inc., New York. M
- Astronautik.* Hermann Oberth-Gesellschaft, e.V., Hanover, West Germany. Q
- Astronautyka.* Polskie Towarzystwo Astronautyczne, Warsaw. Q
- Astronomical Institutes of Czechoslovakia, Bulletin.* Československá Akademie Věd, Prague. BM
- Astronomical Journal.* American Astronomical Society; American Institute of Physics, Inc., New York. 10 issues per year
- Astronomical Society of Australia, Proceedings.* Astronomical Society of Australia; Sydney University Press, Sydney. SA
- Astronomical Society of Japan, Publications.* Astronomical Society of Japan, c/o Tokyo Astronomical Observatory, Mitaka, Tokyo. Q
- Astronomical Society of the Pacific, Publications.* Astronomical Society of the Pacific, San Francisco. BM
- Astronomicheskii Vestnik.* Vsesoiuznoe Astronomo-Geodezicheskoe Obshchestvo; Izdatel'stvo Nauka, Moscow. Q
- Astronomicheskii Zhurnal.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- L'Astronomie.* Société Astronomique de France, Paris. BM
- Astronomie und Raumfahrt.* Deutsche Astronautische Gesellschaft, Berlin, East Germany. BM
- Astronomische Gesellschaft, Mitteilungen.* Astronomische Gesellschaft, Hamburg; G. Braun GmbH, Karlsruhe, West Germany. Irreg.
- Astronomische Nachrichten.* Akademie-Verlag GmbH, Berlin, East Germany. Irreg.
- Astronomy and Astrophysics.* Springer Verlag, Berlin, West Germany. M
- Astronomy and Astrophysics Supplement Series.* European Southern Observatory; Astronomical Institute Lausanne and Geneva Observatory, Switzerland.
- Astrophysical Journal.* American Astronomical Society; University of Chicago Press, Chicago. M
- Astrophysical Journal Supplement Series.* American Astronomical Society; University of Chicago Press, Chicago. M
- Astrophysical Letters.* Gordon & Breach Science Publishers, Ltd., London. M
- Astrophysics and Space Science.* D. Reidel Publishing Co., Dordrecht, Netherlands. M
- Australian Journal of Physics.* Commonwealth Scientific and Industrial Research Organization, Melbourne. BM
- Australian Meteorological Magazine.* Commonwealth Bureau of Meteorology, Melbourne. Q
- Automatic Control Theory and Applications.* ACTA Press, Calgary, Canada. 3 issues per year
- Automatica.* Pergamon Press, Ltd., Oxford. BM
- Automation and Remote Control (Avtomatika i Telemekhanika).* Consultants Bureau, New York. M
- Automatizace.* Ministerstvo Průmyslu; Nakladatelství Technické Literatury, Prague. M
- Aviation Review.* Smiths Industries, Ltd., Aviation Div., Wembley, Middx., England. Irreg.
- Aviation Week and Space Technology.* McGraw-Hill, Inc., New York. W
- Aviatsionnaia Tekhnika.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdanie Kazanskogo Aviatsionnogo Instituta, Kazan. Q
- Aviazione di Linea, Difesa, e Spazio.* Rome. M
- Avtomatika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. BM
- Avtomatika i Telemekhanika.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. M
- Babeş-Bolyai, Universitas, Studia, Series Mathematica-Mechanica.* Babeş-Bolyai Universitas, Cluj, Rumania. SA
- Babeş-Bolyai, Universitas, Series Physica.* Babeş-Bolyai, Universitas, Cluj, Rumania. SA
- Ball and Roller Bearing Engineering.* FAG Kugelfischer Georg Schäfer & Co., Schweinfurt, West Germany.
- Beiträge aus der Plasmaphysik.* Akademie-Verlag GmbH, Berlin, East Germany.



- Beiträge zur Physik der Atmosphäre.* Friedr. Vieweg & Sohn GmbH, Braunschweig. Q
- Bell System Technical Journal.* American Telephone & Telegraph Co., New York. 10 issues per year
- Bildmessung und Luftbildwesen.* Deutsche Gesellschaft für Photogrammetrie; Herbert Wichmann Verlag, Karlsruhe, West Germany. Q
- \*Biochimica et Biophysica Acta.* Elsevier Publishing Co., Amsterdam. W
- \*Biomaterials, Medical Devices, and Artificial Organs.* Marcel Dekker, Inc., New York. Q
- Bionika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Biulleten' Eksperimental'noi Biologii i Meditsiny.* Akademiia Meditsinskikh Nauk SSSR; Izdatel'stvo Meditsina, Moscow. M
- B'lgarska Akademiia na Naukite, Fizicheski Institut s ANEB, Izvestiia.* B'lgarska Akademiia na Naukite, Otdelenie za Matematicheski i Fizicheski Nauki, Sofia. Irreg.
- B'lgarska Akademiia na Naukite, Geofizichni Institut, Izvestiia.* B'lgarska Akademiia na Naukite, Sofia. Irreg.
- B'lgarska Akademiia na Naukite, Institut po Elektronika, Izvestiia.* B'lgarska Akademiia na Naukite, Otdelenie za Matematicheski i Fizicheski Nauki, Sofia. Irreg.
- B'lgarska Akademiia na Naukite, Institut po Khidrologiia i Meteorologiia, Izvestiia.* B'lgarska Akademiia na Naukite, Sofia. Irreg.
- B'lgarska Akademiia na Naukite, Matematicheski Institut, Izvestiia.* B'lgarska Akademiia na Naukite, Sofia. Irreg.
- Boğaziçi Üniversitesi Dergisi — Mühendislik.* Boğaziçi University, Istanbul. Annual
- Bolgarskaia Akademiia Nauk, Doklady.* B'lgarska Akademiia na Naukite, Sofia. M
- Bosch Technische Berichte.* Robert Bosch GmbH, Stuttgart, West Germany. Irreg.
- Boundary-Layer Meteorology.* D. Reidel Publishing Co., Dordrecht, Netherlands. Q
- \*Brennstoff-Wärme-Kraft.* VDI Verlag GmbH, Düsseldorf. M
- British Acoustical Society, Proceedings.* British Acoustical Society, London. M
- British Astronomical Association, Journal.* British Astronomical Association, Hounslow West, Middx., England. BM
- British Heart Journal.* British Medical Association, London. BM
- British Interplanetary Society Journal.* British Interplanetary Society, London. M
- British Journal of Sports Medicine.* British Association of Sport and Medicine; Dr. H. E. Robson, Loughborough, Leics., England. Irreg.
- București, Universitatea, Analele, Matematică — Mecanică.* Redactia Analele Universității București, Bucharest. Irreg.
- Bulletin of Mathematical Biology.* Society for Mathematical Biology; Pergamon Press, Ltd., Oxford. BM
- Canada, National Research Council, Division of Mechanical Engineering and National Aeronautical Establishment, Quarterly Bulletin.* National Research Council of Canada, Ottawa. Q
- Canadian Aeronautics and Space Journal.* Canadian Aeronautics and Space Institute, Ottawa. M
- \*Canadian Journal of Botany.* National Research Council of Canada, Ottawa. M
- \*Canadian Journal of Chemistry.* National Research Council of Canada, Ottawa. SM
- Canadian Journal of Physics.* National Research Council of Canada, Ottawa. SM
- Canadian Journal of Psychology.* Canadian Psychological Association; University of Toronto Press, Toronto. Q
- Canadian Society for Mechanical Engineering, Transactions.* Canadian Society for Mechanical Engineering, Montreal. Q
- Cardiology.* S. Karger AG, Basel. BM
- Cardiovascular Research.* British Cardiac Society; British Medical Association, London. Q
- CASI Transactions.* Canadian Aeronautics and Space Institute, Ottawa. SA
- CATCA Journal.* Canadian Air Traffic Control Association, Inc., Ottawa. SA
- Celestial Mechanics.* D. Reidel Publishing Co., Dordrecht, Netherlands. Q
- Československý Časopis pro Fyziku, Sekce A. Československá Akademie Věd, Prague.* BM
- \*Chemical Communications.* Chemical Society, London. SM
- Chemical Physics Letters.* North-Holland Publishing Co., Amsterdam. BW
- Chemie-Ingenieur-Technik.* Gesellschaft Deutscher Chemiker; Verlag Chemie GmbH, Weinheim, West Germany. M
- \*Chemistry in Britain.* Royal Institute of Chemistry, London. M
- Chubu Institute of Technology, Memoirs.* Chubu Institute of Technology, Nagoya. Irreg.
- Ciel et Terre.* Société Belge d'Astronomie, de Météorologie et de Physique du Globe, Brussels. BM
- Circulation.* American Heart Association, Inc., New York. M
- Circulation Research.* American Heart Association, Inc., New York. M
- \*Clínica Chimica Acta.* Elsevier Scientific Publishing Co., Amsterdam. M
- Cobalt.* Centre d'Information du Cobalt, Brussels. Q
- Combustion and Flame.* Combustion Institute; American Elsevier Publishing Co., Inc., New York. BM
- Combustion Science and Technology.* Gordon & Breach Science Publishers, Ltd., London. BM
- Comments on Atomic and Molecular Physics (see Comments on Modern Physics, Part D — Comments on Atomic and Molecular Physics).*
- Comments on Modern Physics, Part C — Comments on Astrophysics and Space Physics.* Gordon & Breach Science Publishers, Ltd., London. BM
- \*Comments on Modern Physics, Part D — Comments on Atomic and Molecular Physics.* Gordon & Breach Science Publishers, Ltd., London. BM
- Communications in Mathematical Physics.* Springer Verlag, Berlin, West Germany. Irreg.
- Cambridge Philosophical Society, Proceedings.* Cambridge University Press, London. BM

- Communications on Pure and Applied Mathematics.* New York University, Courant Institute of Mathematical Sciences; Interscience Publishers, New York. BM
- Composites.* Iliffe Science and Technology Publications, Ltd., Guildford, Surrey, England. Q
- Computer Methods in Applied Mechanics and Engineering.* North-Holland Publishing Co., Amsterdam. Q
- Computers and Electrical Engineering.* Pergamon Press, Ltd., Oxford. Q
- Computers and Fluids.* Pergamon Press, Ltd., Oxford. Q
- Computers and Structures.* Pergamon Press, Ltd., Oxford. Q
- Computers in Biology and Medicine.* Pergamon Press, Inc., New York. Q
- Computing.* Springer Verlag, Vienna. Q
- COMSAT Technical Review.* Communications Satellite Corporation, Washington, D.C. SA
- Contemporary Physics.* Taylor & Francis, Ltd., London. BM
- \*Contributions to Mineralogy and Petrology.* Springer Verlag, Berlin, West Germany. 3 vols. per year
- The Controller.* International Federation of Air Traffic Controllers' Associations, Geneva; Verlag W. Kramer & Co., Frankfurt am Main, West Germany. Q
- Corrosion.* National Association of Corrosion Engineers, Inc., Houston, Tex. M
- \*Corrosion Science.* Pergamon Press, Ltd., Oxford. M
- Cosmic Research (Kosmicheskie Issledovaniia).* Consultants Bureau, New York. BM
- COSPAR Information Bulletin.* COSPAR Secretariat, Paris. Irreg.
- Cryogenics.* Iliffe Science & Technology Publications, Ltd., London. BM
- Czechoslovak Journal of Physics.* Československá Akademie Věd, Prague. M
- Czechoslovak Mathematical Journal.* Československá Akademie Věd, Prague. Q
- Defence Science Journal.* Indian Ministry of Defence, New Delhi. Q
- Defense Management Journal.* Directorate for Management Improvement Programs, Office of the Assistant Secretary of Defense; Supt. of Documents, Washington, D.C. Q
- Delft Progress Report, Series B — Electrical, Electronic and Information Engineering.* Nijgh-Wolters-Noordhoff Universitaire Uitgevers BV; Academic Book Services Netherlands, Groningen. 3 issues per volume
- Delft Progress Report, Series C — Mechanical and Aeronautical Engineering and Shipbuilding.* Nijgh-Wolters-Noordhoff Universitaire Uitgevers BV; Academic Book Services Netherlands, Groningen. 5 issues per volume
- Deutscher Aerokurier.* Deutscher Aero Club, e.V., Frankfurt/Main, West Germany. M
- DEW-Technische Berichte.* Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, West Germany. Irreg.
- DFVLR-Nachrichten.* Deutsche Forschungs- und Versuchsanstalt für Luft- und Raumfahrt, e.V., Porz-Wahn, West Germany. Irreg.
- DGLR Mitteilungen.* Deutsche Gesellschaft für Luft- und Raumfahrt, e.V., Cologne. Q
- Differentsial'nye Uravneniia.* Izdatel'stvo Nauka i Tekhnika, Minsk. M
- DISA Information.* DISA Elektronik A/S, Herlev, Denmark. M
- Dornier-Post (English Edition).* Dornier AG, Munich. Q
- Earth and Planetary Science Letters.* North-Holland Publishing Co., Amsterdam. M
- L'Echo des Recherches.* Centre National d'Etudes des Télécommunications, Issy-les-Moulineaux (Hauts-de-Seine), France. Q
- Eesti NSV Teaduste Akadeemia, Toimetised, Füüsika-Matemaatika.* Izdatel'stvo Periodika, Tallin. Q
- Electrical Communication.* International Telephone and Telegraph Corp., New York. Q
- Electro-Optical Systems Design.* Milton S. Kiver Publications, Inc., Madison, Wis. M
- Electrochemical Society, Journal.* Electrochemical Society, Inc., New York. M
- Electroencephalography and Clinical Neurophysiology.* International Federation of Societies for Electroencephalography and Clinical Neurophysiology; Elsevier Publishing Co., Amsterdam. M
- Electronic Progress.* Raytheon Co., Lexington, Mass. Q
- Electronics and Communications in Japan (Denshi Tsushin Gakkai Ronbunshi).* Institute of Electronics and Communications Engineers in Japan; Institute of Electrical and Electronics Engineers, Inc., New York. M
- Electronics Letters.* Institution of Electrical Engineers, London. BW
- Elektromekhanika.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR, Novocherkassk. M
- Elektronik.* Franzis-Verlag, Munich. M
- Elektronika.* Wydawnictwa Czasopism Technicznych NOT, Warsaw. M
- Elektronnaiia Tekhnika v Avtomatike.* Izdatel'stvo Sovetskoe Radio, Moscow. Irreg.
- \*Elektrotechnische Zeitschrift, Ausgabe A.* Verband Deutscher Elektrotechniker; VDE-Verlag GmbH, Berlin, West Germany.
- Elektrotehniški Vestnik.* Elektrotehniška Zveza Slovenije, Ljubljana. BM
- Endeavour.* Imperial Chemical Industries, Ltd., London. 3 issues per year
- Energeticheskoe Mashinostroenie.* Khar'kovskii Politehnicheskii Institut; Izdatel'stvo Vishcha Shkola, Kharkov. Irreg.
- Energomashinostroenie.* Ministerstvo Tiazhelogo, Energeticheskogo i Transportnogo Mashinostroeniia SSSR and Nauchno-Tekhnicheskoe Obshchestvo Mashinostroitel'noi Promyshlennosti; Izdatel'stvo Mashinostroenie, Leningrad. M
- Energy Conversion.* Pergamon Press, Ltd., Oxford. Q
- Engineering Fracture Mechanics.* Pergamon Press, Ltd., Oxford. Q
- Entropie.* Editions Barthélemy & Cie., Paris. BM
- Environmental Data Service.* U. S. Department of Commerce, Washington, D.C. BM



*EOS*. American Geophysical Union, Washington, D.C. M

*Erdöl und Kohle Erdgas Petrochemie vereinigt mit Brennstoff-Chemie*. German Society for Petroleum Science and Coal Chemistry; Industrieverlag von Hernhausen, KG, Hamburg, West Germany. M

*Ergonomics*. Ergonomics Research Society, Nederlandse Vereniging voor Ergonomie, International Ergonomics Association; Taylor & Francis, Ltd., London. Q

*Ericsson Technics*. Telefonaktiebolaget LM Ericsson, Stockholm. Q

*ESRO/ELDO Bulletin*. European Space Research Organization and European Space Vehicle Launcher Development Organization, Neuilly-sur-Seine (Hauts-de-Seine), France. Q

*Esso Air World*. ESSO International, Inc., New York. BM

*Eurocontrol*. Eurocontrol, Public Relations Div., Brussels. SA

*European Journal of Applied Physiology*. Springer Verlag, Berlin, West Germany. Irreg.

*Experientia*. Birkhäuser Verlag, Basel. M

*Experimental Brain Research*. Springer Verlag, Berlin, West Germany. Irreg.

*Experimental Mechanics*. Society for Experimental Stress Analysis, Westport, Conn. M

*Explosivstoffe*. Erwin Barth Verlag, KG, Mannheim, West Germany. M

*Finnische Akademie der Wissenschaften, Geophysikalisches Observatorium, Veröffentlichungen*. Academia Scientiarum Fennica, Helsinki. Irreg.

*Finommechanika — Mikrotechnika*. Lapkiadó Vállalat, Budapest. M

*Fizika*. Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdatel'stvo Tomskogo Universiteta, Tomsk. M

*Fizika Gorenii i Vzryva*. Akademiia Nauk SSSR, Sibirskoe Otdelenie; Izdatel'stvo Nauka, Novosibirsk. Q

*Fizika Metallov i Metallovedenie*. Akademiia Nauk SSSR; Izdatel'stvo Nauka, Sverdlovsk. M

*Fiziko-Khimicheskaia Mekhanika Materialov*. Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. BM

*Fiziologicheskii Zhurnal SSSR*. Akademiia Nauk SSSR; Izdatel'stvo Nauka, Leningrad. M

*Fiziologichnii Zhurnal*. Akademiia Nauk Ukrainskoi SSR, Institut Fiziologii; Izdatel'stvo Naukova Dumka, Kiev. BM

*Flight International*. Royal Aero Club; IPC Business Press, Ltd., London. W

*Flug Revue/Flugwelt International*. Club der Luftfahrt von Deutschland, e.V., Bonn; Vereinigte Motor-Verlage GmbH, Stuttgart, West Germany. M

*Fluid Mechanics — Soviet Research*. Scripta Publishing Corp., Washington, D. C. BM

*Fluidics Quarterly*. Ann Arbor, Mich. Q

*Forschung im Ingenieurwesen*. Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. BM

*Forschung und Technik*. Switzerland.

*Fortune*. Times, Inc., Chicago. M

*\*Foundations of Physics*. Plenum Publishing Corp., New York. Q

*Franklin Institute, Journal*. Franklin Institute, Philadelphia, Pa.; Pergamon Press, Ltd., Oxford. M

*Frequenz*. Fachverlag Scheile & Schön, Berlin, West Germany. M

*Fujitsu Scientific and Technical Journal*. Fujitsu, Ltd., Kanagawa, Japan. Q

*Fundamentals of Cosmic Physics*. Gordon & Breach Science Publishers, Ltd., London.

*Geliotehnika*. Akademiia Nauk Uzbekskoi SSR, Tashkent. BM

*Geochimica*. Academia Sinica, Peking. Q

*Geochimica et Cosmochimica Acta*. Geochemical Society and Meteoritical Society; Pergamon Press, Ltd., Oxford. M

*Geodesy and Aerophotography (Geodeziia i Aerofotos'emka)*. American Geophysical Union, Washington, D.C. BM

*Geodeziia, Kartografiia i Aerofotos'emka*. Izdatel'stvo L'vovskogo Universiteta, Lvov. Irreg.

*Geodeziia i Aerofotos'emka*. Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdatel'stvo Moskovskogo Instituta Inzhenerov Geodezii, Aerofotos'emki i Kartografii, Moscow. BM

*Geodeziia i Kartografiia*. Glavnoe Upravlenie Geodezii i Kartografii pri Sovete Ministrov SSSR; Izdatel'stvo Nedra, Moscow. M

*Geodezja i Kartografia*. Polska Akademia Nauk, Komitet Geodezji; Państwowe Wydawnictwo Naukowe, Warsaw. Q

*Geofizicheskii Sbornik*. Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.

*Geofysiske Publikasjoner (Geophysica Norvegica) see Geophysica Norvegica (Geofysiske Publikasjoner)*.

*Geological Society of America Bulletin*. Geological Society of America, Boulder, Colo. M

*\*Geology*. Geological Society of America, Boulder, Colo. M

*Geomagnetism and Aeronomy (Geomagnetizm i Aeronomiia)*. American Geophysical Union, Washington, D.C. BM

*Geomagnetizm i Aeronomiia*. Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM

*Geophysica Norvegica (Geofysiske Publikasjoner)*. Norwegian Academy of Sciences and Letters; Universitetsforlaget, Oslo. Irreg.

*Geophysical Fluid Dynamics*. Gordon & Breach Science Publishers, Ltd., London. M

*Geophysical Journal*. Royal Astronomical Society; Blackwell Scientific Publications, Ltd., Oxford. M

*Geophysical Research Letters*. American Geophysical Union, Washington, D.C. M

*Gerlands Beiträge zur Geophysik*. Akademische Verlagsgesellschaft Geest & Portig, KG, Leipzig, East Germany. BM

*Gidromekhanika*. Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.

*Göttingen, Akademie der Wissenschaften, Nachrichten, Mathematisch-physikalische Klasse*. Vandenhoeck & Ruprecht, Göttingen. Irreg.



- \*Health Physics.* American Health Physics Society; Pergamon Press, Ltd., Oxford. M
- Heat Transfer — Japanese Research.* Scripta Publishing Corp., Washington, D.C. Q
- Heat Transfer — Soviet Research.* American Society of Mechanical Engineers, New York. BM
- High Temperature (Teplofizika Vysokikh Temperatur).* Consultants Bureau, New York. BM
- \*High Temperature Science.* Academic Press, Inc., New York. Q
- High Temperatures — High Pressures.* Pion, Ltd., London. BM
- Hiroshima University, Journal of Science, Series A — II.* Hiroshima University, Faculty of Science, Dept. of Chemistry, Hiroshima. 3 issues per year
- Human Factors.* Human Factors Society, Inc., Santa Monica, Calif.; The Johns Hopkins Press, Baltimore, Md. M
- Hydraulics and Pneumatics.* Industrial Publishing Co., Cleveland, Ohio. M
- I & EC — Industrial and Engineering Chemistry, Product Research and Development.* American Chemical Society, Washington, D.C. Q
- Iași, Institutul Politehnic, Buletinul, Secția I — Matematică, Mecanică Teoretică, Fizică.* Iași, Institutul Politehnic, Iași, Rumania. SA
- Iași, Institutul Politehnic, Buletinul, Secția III — Electrotehnică, Electronică, Automatizări.* Iași, Institutul Politehnic, Iași, Rumania. Irreg.
- Iași, Institutul Politehnic, Buletinul, Secția IV — Mecanică Tehnică.* Iași, Institutul Politehnic, Iași, Rumania. SA
- IBM Journal of Research and Development.* International Business Machines Corp., Armonk, N.Y. BM
- Icarus.* Academic Press, Inc., New York. BM
- IEE Reviews.* Institution of Electrical Engineers, London. Annual
- IEEE, Proceedings.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Journal of Quantum Electronics.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Journal of Solid-State Circuits.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Spectrum.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Transactions on Acoustics, Speech, and Signal Processing.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Aerospace and Electronic Systems.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Antennas and Propagation.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Automatic Control.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Biomedical Engineering.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Transactions on Broadcasting.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Circuits and Systems.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Communications.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Computers.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Transactions on Education.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Electrical Insulation.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Electromagnetic Compatibility.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Electron Devices.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Transactions on Engineering Management.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Geoscience Electronics.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Industrial Electronics and Control Instrumentation.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Information Theory.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Instrumentation and Measurement.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Magnetics.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Microwave Theory and Techniques.* Institute of Electrical and Electronics Engineers, Inc., New York. M
- IEEE Transactions on Nuclear Science.* Institute of Electrical and Electronics Engineers, Inc., New York. BM
- IEEE Transactions on Parts, Hybrids, and Packaging.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Plasma Science.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Professional Communication.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Reliability.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Sonics and Ultrasonics.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- IEEE Transactions on Systems, Man, and Cybernetics.* Institute of Electrical and Electronics Engineers, Inc., New York. Q
- Image Technology.* Society of Photographic Scientists and Engineers; Acolyte Publications Corp., Los Angeles. BM
- Indian Academy of Sciences, Proceedings, Section A.* Indian Academy of Sciences, Bangalore. M



- Indian Journal of Radio and Space Physics.* Council of Scientific and Industrial Research, Indian National Science Academy, Delhi. Q
- Indian Rocket Society, Journal.* Indian Rocket Society, Trivandrum, India. Q
- Indiana University Mathematics Journal.* Indiana University, Dept. of Mathematics, Bloomington, Ind. M
- Industrial Laboratory (Zavodskaja Laboratoriia).* Consultants Bureau, New York. M
- Industries Atomiques et Spatiales.* Sertna, S.A., Geneva. BM
- Information and Control.* Academic Press, Inc., New York. M
- Infrared Physics.* Pergamon Press, Ltd., Oxford. Q
- Ingegneria.* Editore Ulrico Hoepli, Milan. M
- Ingeniería Aeronáutica y Astronáutica.* Asociación de Ingenieros Aeronáuticos, Madrid. BM
- Ingenieur-Archiv.* Springer Verlag, Berlin, West Germany. BM
- Inorganic Chemistry.* American Chemical Society, Washington, D. C. M
- Institut Henri Poincaré, Annales, Section A — Physique Théorique.* Gauthier-Villars, Paris. BM
- Institut Royal Météorologique de Belgique, Publications, Série A.* Institut Royal Météorologique de Belgique, Brussels. Irreg.
- Institut Royal Météorologique de Belgique, Publications, Série B.* Institut Royal Météorologique de Belgique, Brussels.
- Institut Teoreticheskoi Astronomii, Biulleten'.* Akademiia Nauk SSSR, Institut Teoreticheskoi Astronomii; Izdatel'stvo Nauka, Leningrad. Irreg.
- Institute of Mathematics and Its Applications, Journal.* Academic Press, Inc. (London), Ltd., London. Q
- Institution of Electrical Engineers, Proceedings.* Institution of Electrical Engineers, London. M
- Institution of Electronics and Telecommunication Engineers, Journal (formerly Institution of Telecommunication Engineers, Journal).* Institution of Electronics and Telecommunication Engineers, New Delhi. M
- Institution of Engineers (Bangladesh), Journal.* Institution of Engineers, Dacca, Bangladesh. Q
- Institution of Engineers (India), Journal, Electronics and Telecommunication Engineering Division.* Institution of Engineers, Calcutta. 3 issues per year
- Institution of Engineers (India), Journal, Mechanical Engineering Division.* Institution of Engineers, Calcutta. BM
- Institution of Mechanical Engineers, Proceedings.* Institution of Mechanical Engineers, London. Irreg.
- Institution of Telecommunication Engineers, Journal (see Institution of Electronics and Telecommunication Engineers, Journal).*
- Instruments and Control Systems.* Chilton Co., Philadelphia, Pa. M
- Instytut Lotnictwa, Biuletyn Informacyjny.* Instytut Lotnictwa, Warsaw. BM
- Instytut Lotnictwa, Prace.* Instytut Lotnictwa Wydawnictwo Naukowo-Techniczne, Warsaw. Irreg.
- Instytut Maszyn Przepływowych, Prace.* Polska Akademia Nauk, Instytut Maszyn Przepływowych, Gdansk; Państwowe Wydawnictwo Naukowe, Warsaw. Irreg.
- Interavia.* Interavia S.A., Geneva. M
- International Chemical Engineering.* American Institute of Chemical Engineers, New York. Q
- International Journal for Numerical Methods in Engineering.* John Wiley & Sons, Ltd., Chichester, Sussex, England. Q
- \*International Journal of Biomedical Engineering.* Midwest Publishers, Ann Arbor, Mich.; Uchida Rokakuho Publishing House, Tokyo. Q
- \*International Journal of Computer and Information Sciences.* Plenum Publishing Corp., New York.
- International Journal of Control.* Taylor & Francis, Ltd., London. M
- International Journal of Electronics, First Series.* Taylor & Francis, Ltd., London. M
- International Journal of Engineering Science.* Pergamon Press, Ltd., Oxford. M
- International Journal of Fracture.* Noordhoff International Publishing, Leiden; Academic Book Services Holland, Groningen. Q
- International Journal of Heat and Mass Transfer.* Pergamon Press, Ltd., Oxford. M
- International Journal of Man-Machine Studies.* Academic Press, Inc. (London), Ltd., London. Q
- \*International Journal of Mass Spectroscopy and Ion Physics.* Elsevier Publishing Co., Amsterdam. M
- International Journal of Mechanical Sciences.* Pergamon Press, Ltd., Oxford. M
- International Journal of Multiphase Flow.* Pergamon Press, Ltd., Oxford. BM
- International Journal of Non-Linear Mechanics.* Pergamon Press, Ltd., Oxford. Q
- International Journal of Powder Metallurgy (see International Journal of Powder Metallurgy and Powder Technology).*
- International Journal of Powder Metallurgy and Powder Technology (formerly International Journal of Powder Metallurgy).* American Powder Metallurgy Institute, Baltimore, Md. Q
- International Journal of Solids and Structures.* Pergamon Press, Ltd., Oxford. M
- \*International Journal of Theoretical Physics.* Plenum Publishing Co., Ltd., London. Q
- International Metallurgical Reviews.* Institute of Metals, London; American Society for Metals, Metals Park, Ohio. Q
- Internationale Elektronische Rundschau.* Verlag für Radio-Foto-Kinotechnik GmbH, Berlin, West Germany. M
- \*Investigative Radiology.* J. B. Lippincott Co., Philadelphia. BM
- Inzhenerno-Fizicheskii Zhurnal.* Akademiia Nauk Belorusskoi SSR; Izdatel'stvo Nauka i Tekhnika, Minsk. M
- Irish Astronomical Journal.* Observatory, Armagh, Northern Ireland. Q
- ISA Transactions.* Instrument Society of America, Pittsburgh, Pa. Q
- Ishikawajima-Harima Engineering Review.* Ishikawajima-Harima Heavy Industries Co., Ltd., Tokyo. BM
- Israel Journal of Technology.* Weizmann Science Press of Israel, Jerusalem. BM
- Issledovaniia po Teorii Plastin i Obolochek.* Izdatel'stvo Kazanskogo Universiteta, Kazan. Irreg.
- İstanbul Üniversitesi, Fen Fakültesi Mecmuası, Seri C — Astronomi-Fizik-Kimya.* İstanbul Üniversitesi, İstanbul. Q



- ITU Telecommunication Journal*. International Telecommunication Union, Geneva. M
- Japan Air Self Defence Force, Aeromedical Laboratory, Reports*. Aeromedical Laboratory, Tachikawa, Japan. Q
- Japan, Defense Academy, Memoirs*. Defense Academy, Yokosuka, Japan. Irreg.
- Japan Institute of Light Metals, Journal*. Japan Institute of Light Metals, Tokyo. BM
- Japan Institute of Metals, Journal (Nippon Kinzoku Gakkai-si)*. Japan Institute of Metals, Sendai. M
- Japan Institute of Metals, Transactions*. Japan Institute of Metals, Sendai. BM
- Japan Society for Aeronautical and Space Sciences, Transactions*. Japan Society for Aeronautical and Space Sciences, Tokyo. Irreg.
- Japan Society of Materials Science, Journal*. Society of Materials Science, Kyoto. M
- Japanese Heart Journal*. Tokyo, University, Faculty of Medicine, Tokyo. BM
- Japanese Journal of Applied Physics*. Physical Society of Japan and Japan Society of Applied Physics, Tokyo. M
- Japanese Journal of Physiology*. Physiological Society of Japan; University of Tokyo Press, Tokyo. BM
- Jemná Mechanika a Optika*. Ministerstvo Průmyslu; Státní Nakladatelství Technické Literatury, Prague. BM
- Jena Review*. VEB Verlag Technik, Berlin, East Germany. BM
- JETP Letters (ZHETF Pis'ma v Redaktsiiu)*. American Institute of Physics, Inc., New York. SM
- Journal de Mécanique*. Gauthier-Villars, Paris. Q
- Journal de Physiologie*. Masson & Cie., Paris. BM
- Journal de Physique*. Société Française de Physique, Paris. M
- Journal de Physique — Lettres*. Société Française de Physique, Paris.
- Journal de Recherches Atmosphériques*. Universités de Clermont-Ferrand et de Toulouse, Observatoire du Puy de Dôme, Clermont-Ferrand, France. Q
- Journal of Air Law and Commerce*. Southern Methodist University, School of Law, Dallas. Q
- Journal of Air Traffic Control*. Air Traffic Control Association, Inc., Washington, D. C. BM
- Journal of Aircraft*. American Institute of Aeronautics and Astronautics, Inc., New York. BM
- \*Journal of Applied Chemistry and Biotechnology*. Academic Press, Inc., London. M
- Journal of Applied Meteorology*. American Meteorological Society, Boston. BM
- Journal of Applied Physics*. American Institute of Physics, Inc., New York. 13 issues per year
- Journal of Applied Physiology*. American Physiological Society, Washington, D.C. M
- \*Journal of Applied Polymer Science*. Interscience Publishers, New York. M
- Journal of Applied Psychology*. American Psychological Association, Washington, D.C. BM
- Journal of Atmospheric and Terrestrial Physics*. Pergamon Press, Ltd., Oxford. M
- Journal of Bacteriology*. American Society for Microbiology, Bethesda, Md. M
- Journal of Biological Chemistry*. American Society of Biological Chemists, Inc., Baltimore, Md. M
- Journal of Biomechanics*. Pergamon Press, Ltd., Oxford. Q
- Journal of Chemical Physics*. American Institute of Physics, Inc., New York. SM
- \*Journal of Chromatography*. Elsevier Publishing Co., Amsterdam. M
- Journal of Composite Materials*. Technomic Publishing Co., Inc., Stamford, Conn. BM
- Journal of Computational Physics*. Academic Press, Inc., New York. Q
- Journal of Differential Equations*. Academic Press, Inc., New York. BM
- Journal of Elasticity*. Wolters-Noordhoff Publishing, Groningen, Netherlands. Q
- Journal of Electrocardiology*. Research in Electrocardiology, Inc., Dayton, Ohio. Q
- Journal of Engineering Mathematics*. Wolters-Noordhoff Publishing, Groningen, Netherlands. Q
- Journal of Environmental Sciences*. Institute of Environmental Sciences, Mt. Prospect, Ill. BM
- \*Journal of Environmental Systems*. Baywood Publishing Co., Inc., Farmingdale, N. Y. Q
- Journal of Experimental Psychology*. American Psychological Association, Inc., Washington, D.C. M
- Journal of Fire and Flammability*. Technomic Publishing Co., Inc., Westport, Conn. Q
- Journal of Fire and Flammability, Combustion Toxicology Supplement*. Technomic Publishing Co., Westport, Conn. Q
- Journal of Fire and Flammability, Fire Retardant Chemistry Supplement*. Technomic Publishing Co., Westport, Conn. Q
- Journal of Fluid Mechanics*. Cambridge University Press, London. 20 issues per year
- Journal of Geomagnetism and Geoelectricity*. Society of Terrestrial Magnetism and Electricity, Kyoto, Japan. BM
- Journal of Geophysical Research*. American Geophysical Union, Washington, D.C. 36 issues per year
- Journal of Hydronautics*. American Institute of Aeronautics and Astronautics, Inc., New York. Q
- \*Journal of Macromolecular Science, Series B — Physics*. Marcel Dekker, Inc., New York. Q
- Journal of Materials Science*. Chapman & Hall, Ltd., London. M
- Journal of Mathematical Analysis and Applications*. Academic Press, Inc., New York. M
- Journal of Mathematical and Physical Sciences*. Indian Institute of Technology, Madras.
- Journal of Mathematical Physics*. American Institute of Physics, Inc., New York. M
- Journal of Mechanical Engineering Science*. Institution of Mechanical Engineers, London. Q
- Journal of Metals*. American Institute of Mining, Metallurgical and Petroleum Engineers, Inc., New York. M
- Journal of Microwave Power*. International Microwave Power Institute, Ltd., Edmonton, Alberta, Canada. Q
- Journal of Molecular Evolution*. Springer Verlag, Berlin, West Germany. 4 issues per volume
- \*Journal of Molecular Structure*. Elsevier Publishing Co., Amsterdam. BM
- Journal of Navigation*. Royal Institute of Navigation; John Murray (Publishers), Ltd., London. Q



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- Journal of Optimization Theory and Applications.* Plenum Publishing Corp., New York. M
- \**Journal of Organic Chemistry.* American Chemical Society, Washington, D.C. M
- \**Journal of Photochemistry.* Elsevier Sequoia S.A., Lausanne. BM
- Journal of Physical Chemistry.* American Chemical Society, Washington, D.C. BW
- Journal of Physical Oceanography.* American Meteorological Society, Boston. Q
- Journal of Physics, Part A — Mathematical, Nuclear and General.* Institute of Physics, London. M
- Journal of Physics, Part B — Atomic and Molecular Physics.* Institute of Physics and The Physical Society, London. M
- Journal of Physics, Part C — Solid State Physics.* Institute of Physics and The Physical Society, London. M
- Journal of Physics, Part D — Applied Physics.* Institute of Physics and The Physical Society, London. M
- Journal of Physics, Part E — Scientific Instruments.* Institute of Physics and The Physical Society, London. M
- Journal of Physics, Part F — Metal Physics.* Institute of Physics, London. BM
- \**Journal of Physics and Chemistry of Solids.* Pergamon Press, Ltd., Oxford. M
- Journal of Plasma Physics.* Cambridge University Press, London. Q
- \**Journal of Polymer Science, Part A — Polymer Chemistry.* Interscience Publishers, Inc., New York. M
- Journal of Quantitative Spectroscopy and Radiative Transfer.* Pergamon Press, Ltd., Oxford. M
- \**Journal of Range Management.* American Society of Range Management, Denver. BM
- Journal of Research, Section A — Physics and Chemistry.* National Bureau of Standards; Supt. of Documents, Washington, D.C. BM
- Journal of Research, Section B — Mathematical Sciences.* National Bureau of Standards; Supt. of Documents, Washington, D.C. BM
- Journal of Sound and Vibration.* British Acoustical Society; Academic Press, Inc. (London), Ltd., London. BM
- Journal of Spacecraft and Rockets.* American Institute of Aeronautics and Astronautics, Inc., New York. M
- Journal of Strain Analysis.* Joint British Committee for Stress Analysis; Institute of Mechanical Engineers, London. Q
- Journal of Structural Mechanics.* Marcel Dekker, Inc., New York. Q
- Journal of Testing and Evaluation.* American Society for Testing and Materials, Philadelphia. BM
- Journal of the Astronautical Sciences.* American Astronautical Society, Inc., Washington, D.C. BM
- Journal of the Atmospheric Sciences.* American Meteorological Society, Boston. BM
- Journal of the Experimental Analysis of Behavior.* Society for the Experimental Analysis of Behavior, Inc., Indiana University, Bloomington, Ind. BM
- Journal of the Less-Common Metals.* Elsevier Sequoia S. A., Lausanne. M
- Journal of the Mechanics and Physics of Solids.* Pergamon Press, Ltd., Oxford. BM
- \**Journal of Theoretical Biology.* Academic Press, Ltd., London. M
- Journal of Vacuum Science and Technology.* American Vacuum Society; American Institute of Physics, Inc., New York. BM
- JSME, Bulletin.* Japan Society of Mechanical Engineers, Tokyo. BM
- Karlsruhe, Universität, Institut für Strömungslehre und Strömungsmaschinen, Mitteilungen.* Verlag G. Braun, Karlsruhe, West Germany. Irreg.
- Kazanskii Aviatsionnyi Institut, Trudy, Seriya Aviatsionnye Dvigateli.* Kazanskii Aviatsionnyi Institut, Kazan. Irreg.
- Kazanskii Aviatsionnyi Institut, Trudy, Seriya Matematika i Mekhanika.* Kazanskii Aviatsionnyi Institut, Kazan. Irreg.
- Kazanskii Aviatsionnyi Institut, Trudy, Seriya Prikladnaia Mekhanika.* Kazanskii Aviatsionnyi Institut, Kazan. Irreg.
- Kazanskii Aviatsionnyi Institut, Trudy, Seriya Radioelekhnika i Elektronika.* Kazanskii Aviatsionnyi Institut, Kazan. Irreg.
- Kexue Tongbao.* Academia Sinica, Peking. M
- Khimia i Tekhnologiya Topliv i Masel.* Ministerstvo Neftepererabatyvaiushchei i Neftekhimicheskoi Promyshlennosti SSSR, Akademiia Nauk SSSR, and Nauchno-Tekhnicheskoe Obshchestvo Nef-tianoi i Gazovoi Promyshlennosti; Izdazel'stvo Khimii, Moscow. M
- Kleinheubacher Berichte.* Fernmeldetechnischer Zentralamt, Darmstadt, West Germany. Irreg.
- Komety i Meleory.* Akademiia Nauk Tadzhikskoi SSR; Izdatel'stvo Donish, Dushanbe. Irreg.
- Koninklijke Nederlandse Akademie van Wetenschappen, Proceedings, Series B — Physical Sciences.* North-Holland Publishing Co., Amsterdam. 5 issues per year
- Kosmicheskie Issledovaniia.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- Kosmicheskie Luchi.* Izdatel'stvo Nauka, Moscow. Irreg.
- Kovové Materiály.* Slovenská Akademia Vied, Bratislava. BM
- Krymskaia Astrofizicheskaia Observatoriia, Izvestiia.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- Kvantovaia Elektronika.* Akademiia Nauk Ukrainskoi SSR, Institut Poluprovodnikov; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Kvantovaia Elektronika (Moscow).* Akademiia Nauk SSSR; Izdatel'stvo Sovetskoe Radio, Moscow. M
- Kybernetika.* Československá Akademie Věd, Prague. BM
- Kyoto University, Faculty of Engineering, Memoirs.* Kyoto University, Kyoto. Q
- Kyoto University, Institute of Atomic Energy, Technical Reports.* Kyoto University, Kyoto. Irreg.
- Kyushu University, Faculty of Engineering, Memoirs.* Kyushu University, Fukuoka, Japan. Q
- Kyushu University, Research Institute for Applied Mechanics, Reports.* Kyushu University, Fukuoka, Japan. Irreg.



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- Leningradskii Universitet, Vestnik, Matematika, Mekhanika, Astronomiia.* Izdatel'stvo Leningradskogo Universiteta, Leningrad. Q
- Letters in Applied and Engineering Sciences.* Pergamon Press, Ltd., Oxford. BM
- Lietuvos Fizikos Rinkiny.* Akademiia Nauk Litovskoi SSR; Izdatel'stvo Mintis, Vilnius. Q
- Lietuvos Matematikos Rinkiny.* Akademiia Nauk Litovskoi SSR; Izdatel'stvo Mintis, Vilnius. Q
- \**Life Sciences.* Pergamon Press, Ltd., Oxford. BW
- Logistics Spectrum.* Society of Logistics Engineers, Los Angeles. Q
- Lubrication Engineering.* American Society of Lubrication Engineers, Park Ridge, Ill. M
- Machine Design.* Penton Publishing Co., Cleveland, Ohio. 31 issues per year
- Magnitnaia Gidrodinamika.* Akademiia Nauk Latvinskoi SSR; Izdatel'stvo Zinatne, Riga. Q
- Marconi Review.* Marconi Co., Ltd., Chelmsford, Essex, England. Q
- Mashinostroenie.* Ministerstvo Vysshogo i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdanie Moskovskogo Tekhnicheskogo Uchilishcha imeni N. E. Baumana, Moscow. M
- Matematicheskaiia Fizika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Matematicheskii Institut imeni V. A. Steklova, Trudy.* Akademiia Nauk SSSR, Moscow. Irreg.
- Matematicheskoe Modelirovanie i Teoriia Elektricheskikh Tsepei.* Akademiia Nauk Ukrainskoi SSR, Institut Elektrodinamiki; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Matemichki Vesnik.* Društvo Matematičara, Fizičara i Astronoma SRS and Matematički Institut, Belgrade. Q
- Materialprüfung.* VDI-Verlag GmbH, Düsseldorf. M
- Materials Evaluation.* American Society for Non-destructive Testing, Inc., Evanston, Ill. M
- Materials Science and Engineering.* American Society for Metals, Metals Park, Ohio; Elsevier Sequoia S.A., Lausanne. BM
- Matériaux et Techniques.* Ed. Roger Drouhin, Paris. M
- Mathematica.* Societatea de Științe Matematice, Filiala Cluj, Cluj, Rumania. SA
- Mathematics of Computation.* American Mathematical Society, Providence, R. I. Q
- Mathematika.* University College, Dept. of Mathematics, London. SA
- Max-Planck-Institut für Aeronomie, Mitteilungen.* Springer Verlag, Berlin, West Germany. Irreg.
- Meccanica.* Italian Association of Theoretical and Applied Mechanics; Tamburini Editore, Milan. Q
- Mechanical Engineering Bulletin.* Central Mechanical Engineering Research Institute, Durgapur, India.
- Mechanics Research Communications.* Pergamon Press, Ltd., Oxford. BM
- Mechanika Teoretyczna i Stosowana.* Polskie Towarzystwo Mechaniki Teoretycznej i Stosowanej; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- Médecine et Armées.* Association pour le Développement et la Diffusion de l'Information Militaire, Paris. 10 issues per year
- Medical and Biological Engineering.* International Federation for Medical and Biological Engineering; Pergamon Press, Ltd., Oxford. BM
- Mekhanika Mashin.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. Irreg.
- Mekhanika Polimerov.* Akademiia Nauk Latvinskoi SSR; Izdatel'stvo Zinatne, Riga. BM
- Mémoires Scientifiques de la Revue de Métallurgie.* Paris. M
- Méres és Automatika.* Lapkaidó Vállalat, Budapest. M
- Mercury.* Astronomical Society of the Pacific, San Francisco. BM
- Messtechnik.* Friedr. Vieweg & Sohn GmbH, Braunschweig. M
- Metal Progress.* American Society of Metals, Metals Park, Ohio. M
- Metal Science* (formerly *Metal Science Journal*). The Metals Society, London. M
- Metal Science and Heat Treatment (Metalovedenie i Termicheskaiia Obrabotka Metallov).* Consultants Bureau, New York. BM
- Metal Science Journal* (see *Metal Science*).
- Metallofizika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- \**Metallography.* International Metallographic Society, Inc., American Elsevier Publishing Co., Inc., New York. BM
- Metalovedenie i Termicheskaiia Obrabotka Metallov.* Ministerstvo Stankostroitel'noi i Instrumental'noi Promyshlennosti SSSR and Nauchno-Tekhnicheskoe Obshchestvo Mashinostroitel'noi Promyshlennosti; Izdatel'stvo Mashinostroenie, Moscow. M
- Metallurgia Italiana.* Associazione Italiana di Metallurgia, Milan. M
- Metallurgical Transactions.* Metallurgical Society of the American Institute of Mining, Metallurgical and Petroleum Engineers, Inc., New York; American Society for Metals, Metals Park, Ohio. M
- Metals Engineering Quarterly.* American Society for Metals, Metals Park, Ohio. Q
- Meteor-Forschungsergebnisse, Reihe B — Meteorologie und Aeronomie.* Gebrüder Borntraeger, Berlin, West Germany. Irreg.
- Meteoritics.* Meteoritical Society and Arizona State University Bureau of Publications, Tempe, Ariz. Q
- Meteoritika.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. Irreg.
- Meteorological Magazine.* Meteorological Office; Her Majesty's Stationary Office, London. M
- Meteorological Society of Japan, Journal.* Meteorological Society of Japan, c/o Japan Meteorological Agency, Tokyo. BM
- Meteorologiiia i Gidrologiia.* Glavnoe Upravlenie Gidrometeorologicheskoi Sluzhby SSSR; Gidrometeoizdat, Moscow. M
- Meteorologische Rundschau.* Verband Deutscher Meteorologischer Gesellschaften; Springer Verlag, Berlin, West Germany. BM
- Metody Issledovaniia i Optimizatsiia Slozhnykh Sistem Upravleniia.* Ministerstvo Vysshogo i Srednego Spetsial'nogo Obrazovaniia RSFSR; Izdatel'stvo Leningradskogo Universiteta, Leningrad. Irreg.
- Microelectronics and Reliability.* Pergamon Press, Ltd., Oxford. BM



- \**Micron*. Structural Publications, Ltd., London. Q  
*Microwave Journal*. Horizon House, Inc., Dedham, Mass. M  
*MicroWaves*. Hayden Microwaves Corp., New York. M  
*Middle East Technical University Journal of Pure and Applied Sciences*. Middle East Technical University, Ankara. 3 issues per year  
*Mikroelektronika*. Izdatel'stvo Sovetskoe Radio, Moscow.  
*Mitsubishi Juko Giho*. Mitsubishi Heavy Industries, Ltd., Tokyo. BM  
*Modern Geology*. Gordon & Breach Science Publishers, Ltd., London. Q  
\**Molecular Crystals and Liquid Crystals*. Gordon & Breach Science Publishers, Inc., New York. Q  
*Monthly Weather Review*. U. S. Weather Bureau; Supt. of Documents, Washington, D.C. M  
*The Moon*. D. Reidel Publishing Co., Dordrecht, Netherlands. Q  
*Moskovskii Universitet, Vestnik, Seriya I — Matematika, Mekhanika*. Izdatel'stvo Moskovskogo Universiteta, Moscow. BM  
*Moskovskii Universitet, Vestnik, Seriya III — Fizika, Astronomiia*. Izdatel'stvo Moskovskogo Universiteta, Moscow. BM  
  
*Nachrichtentechnische Zeitschrift*. Nachrichtentechnische Gesellschaft; VDE-Verlag GmbH, Berlin, West Germany. M  
*Nagoya University, Faculty of Engineering, Memoirs*. Nagoya University, Nagoya. Irreg.  
*National Academy of Sciences, Proceedings*. National Academy of Sciences, Washington, D.C. M  
*Nature*. Macmillan (Journals), Ltd., London. W  
\**Nature New Biology*. Macmillan (Journals), Ltd., London. W  
*Nature Physical Science*. Macmillan (Journals), Ltd., London. W  
\**Naturwissenschaften*. Max-Planck-Gesellschaft zur Förderung der Wissenschaften; Springer Verlag, Berlin, West Germany. SM  
*Naturwissenschaftliche Rundschau*. Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart, West Germany. M  
*Naval Research Logistics Quarterly*. U.S. Navy, Office of Naval Research; Supt. of Documents, Washington, D.C. Q  
*Naval Research Reviews*. U. S. Navy, Office of Naval Research; Supt. of Documents, Washington, D.C. M  
*Navigation*. Institute of Navigation, Washington, D.C. Q  
*Navigation (Paris)*. Institut Français de Navigation, Paris. Q  
*Neirofiziologiya*. Akademiia Nauk SSSR; Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. BM  
*New Scientist*. New Science Publications, London. W  
*New York Academy of Sciences, Annals*. New York Academy of Sciences, New York. Irreg.  
*New York Academy of Sciences, Transactions, Series 2*. New York Academy of Sciences, New York. 8 issues per year  
\**New Zealand Journal of Science*. Department of Scientific and Industrial Research, Wellington. Q  
  
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*Nomograficheskii Sbornik*. Akademiia Nauk SSSR, Vychislitel'nyi Tsentri, Moscow. Irreg.  
*Non-Destructive Testing*. IPC Science and Technology Press, Ltd., Guildford, Surrey, England. BM  
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*Nouvelle Revue d'Optique*. Masson & Cie., Editeurs, Paris. BM  
*Nuclear Engineering and Design*. North-Holland Publishing Co., Amsterdam. M  
*Nuclear Fusion*. International Atomic Energy Agency, Vienna. Q  
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*Nuclear Science and Engineering*. American Nuclear Society, Inc., Hinsdale, Ill. M  
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*Nuovo Cimento, Lettere*. Società Italiana di Fisica, Bologna. 36 issues per year  
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*The Observatory*. Royal Greenwich Observatory, Hailsham, Sussex, England. M  
*L'Onde Electrique*. Société Française des Electroniciens et des Radioélectriciens; Editions Chiron S.A., Paris. M  
*ONERA, TP*. Office National d'Etudes et de Recherches Aéropatiales, Châtillon-sous-Bagneux (Hauts-de-Seine), France. Irreg.  
*Operations Research*. Operations Research Society of America, Baltimore, Md. BM  
*Ophthalmic Research*. S. Krager AG, Basel. BM  
*Optica Acta*. Taylor & Francis, Ltd., London. M  
*Optical Engineering*. Society of Photo-Optical Instrumentation Engineers, Redondo Beach, Calif. BM  
*Optical Sciences Center Newsletter*. University of Arizona, Optical Sciences Center, Tucson, Ariz. Irreg.  
*Optical Society of America, Journal*. Optical Society of America, Inc., Washington, D.C.; American Institute of Physics, Inc., New York. M  
*Optical Spectra*. Optical Publishing Co., Inc., Pittsfield, Mass. M  
*Optics and Laser Technology*. Iliffe Science & Technology Publications, Ltd., Guildford, Surrey, England. Q  
*Optics Communications*. North-Holland Publishing Co., Amsterdam. M  
*Optika i Spektroskopiia*. Akademiia Nauk SSSR; Izdatel'stvo Nauka, Leningrad. M  
\**Opto-Electronics*. Chapman & Hall, London. Q  
\**Organic Mass Spectrometry*. Heyden & Son, Ltd., London. BM  
*Origins of Life (formerly Space Life Sciences)*. D. Reidel Publishing Co., Dordrecht, Netherlands. Q  
*Orion*. Schweizerische Astronomische Gesellschaft, Schaffhausen, Switzerland. BM



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- Osaka Prefecture, University, Bulletin, Series A — Engineering and Natural Sciences.* University of Osaka Prefecture, Osaka, Japan. Irreg.
- Osaka University, Institute of Scientific and Industrial Research, Memoirs.* Osaka University, Institute of Scientific and Industrial Research, Yamada-Kami, Suita, Osaka, Japan. Irreg.
- Osaka University, Technology Reports.* Osaka University, Osaka, Japan. SA
- Österreichische Akademie der Wissenschaften, mathematisch-naturwissenschaftliche Klasse, Sitzungsberichte, Abteilung 2.* Österreichische Akademie der Wissenschaften; Springer Verlag, Vienna. Irreg.
- Otbor i Peredacha Informatsii.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Oxidation of Metals.* Plenum Publishing Corp., New York. Q
- Papers in Meteorology and Geophysics.* Meteorological Research Institute, Tokyo. Q
- Pensée.* Student Academic Freedom Forum, Portland, Ore. Q
- Perception and Psychophysics.* Psychonomic Journals, Inc., Austin, Tex. M
- Perceptual and Motor Skills.* Missoula, Mont. BM
- Periodica Polytechnica, Electrical Engineering.* Budapest, Technical University, Budapest. Q
- Periodica Polytechnica, Mechanical Engineering.* Budapest, Technical University, Budapest. Q
- Pflügers Archiv.* Springer Verlag, Berlin, West Germany.
- Philips Research Reports.* N. V. Philips' Gloeilampenfabrieken, Research Laboratories, Eindhoven. BM
- Philips Research Reports Supplements.* N. V. Philips' Gloeilampenfabrieken, Research Laboratories, Eindhoven. Irreg.
- Philips Technical Review.* N. V. Philips' Gloeilampenfabrieken, Research Laboratories, Eindhoven. M
- Philosophical Magazine, 8th Series.* Taylor & Francis, Ltd., London. M
- Photogrammetria.* International Society of Photogrammetry; Elsevier Publishing Co., Amsterdam. BM
- Photogrammetric Engineering.* American Society of Photogrammetry, Falls Church, Va. M
- Photographic Applications in Science, Technology and Medicine.* Photographic Applications in Science and Technology, Inc., New York. BM
- Physica.* Physica Foundation; North-Holland Publishing Co., Amsterdam. Irreg.
- Physica Scripta.* Royal Swedish Academy of Sciences; Almqvist & Wiksell Periodical Co., Stockholm. M
- Physica Status Solidi (A) — Applied Research.* Akademie-Verlag GmbH, Berlin; Academic Press, Inc., New York. 3 issues per year
- Physical Review A — General Physics, 3rd Series.* American Physical Society; American Institute of Physics, Inc., New York. M
- Physical Review B — Solid State, 3rd Series.* American Physical Society; American Institute of Physics, Inc., New York. SM
- Physical Review C — Nuclear Physics, 3rd Series.* American Physical Society; American Institute of Physics, Inc., New York. M
- Physical Review D — Particles and Fields, 3rd Series.* American Physical Society; American Institute of Physics, Inc., New York. SM
- Physical Review Letters.* American Physical Society, Inc., New York. W
- Physical Society of Japan, Journal.* Physical Society of Japan, Tokyo. M
- Physics Letters.* North-Holland Publishing Co., Amsterdam. W
- Physics of Fluids.* American Institute of Physics, Inc., New York. M
- Physics of the Earth and Planetary Interiors.* North-Holland Publishing Co., Amsterdam. BM
- Physics Today.* American Institute of Physics, Inc., New York. M
- \*Physiologia Plantarum.* Scandinavian Society for Plant Physiology, Copenhagen. 4 vols. per year
- Physiological Psychology.* Psychonomic Society, Inc., Austin, Tex. Q
- \*Physiology and Behavior.* Brain Research Publications, Inc., Sayetteville, N. Y.
- \*Phytochemistry.* Pergamon Press, Ltd., Oxford. M
- Pisa, Scuola Normale Superiore, Annali, Scienze Físiche e Matematiche.* Pisa, Scuola Normale Superiore, Pisa. Q
- Planetary and Space Science.* Pergamon Press, Ltd., Oxford. M
- Planseeberichte für Pulvermetallurgie/Powder Metallurgy Bulletin.* Metallwerk Plansee Aktiengesellschaft, Reutte, Austria. 3 issues per year
- Plasma Physics.* Pergamon Press, Ltd., Oxford. M
- PMM — Journal of Applied Mathematics and Mechanics (Prikladnaia Matematika i Mekhanika).* Pergamon Press, Ltd., Oxford. BM
- PMTF — Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki.* Akademiia Nauk SSSR, Sibirskoe Otdelenie; Izdatel'stvo Nauka, Novosibirsk. BM
- Podstawy Sterowania.* Polska Akademia Nauk; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- Point-to-Point Communication.* Marconi Communication Systems, Ltd., Chelmsford, England. 3 issues per year
- Politechnika Częstochowska, Zeszyty Naukowe, Nauki Techniczne — Mechanika.* Wydawnictwa Politechniki Śląskiej, Gliwice. Irreg.
- Politechnika Śląska, Zeszyty Naukowe, Mechanika.* Wydawnictwa Politechniki Śląskiej, Gliwice, Poland. Irreg.
- Poluprovodnikovaia Tekhnika i Mikroelektronika.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Poluprovodnikovye Pribory v Tekhnike Elektrosviazi.* Izdatel'stvo Sviaz', Moscow. Irreg.
- Polymer Engineering and Science.* Society of Plastics Engineers, Inc., Greenwich, Conn. BM
- Pomiary, Automatyka, Kontrola.* Naczelna Organizacja Techniczna, Warsaw. M
- Poroshkovaia Metallurgii.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. M
- Postępy Astronautyki.* Polskie Towarzystwo Astronautyczne, Lodz. Q
- Postępy Astronomii.* Polskie Towarzystwo Astronomiczne; Państwowe Wydawnictwo Naukowe, Warsaw. Q



- Postępy Fizyki.* Polskie Towarzystwo Fizyczne; Państwowe Wydawnictwo Naukowe, Warsaw. BM
- Pramāna.* Indian Academy of Sciences, Bangalore. M
- Priboorostroenie.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdatel'stvo Leningradskogo Instituta Tochnoi Mekhaniki i Optiki, Leningrad. M
- Pribory i Tekhnika Eksperimenta.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- Prikladnaia Matematika i Mekhanika.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- Prikladnaia Mekhanika.* Akademiia Nauk Ukrainskoi SSR, Otdelenie Matematiki, Mekhaniki i Kibernetiki; Izdatel'stvo Naukova Dumka, Kiev. M
- Problemy Bioniki.* Khar'kovskii Gosudarstvennyi Universitet, Kharkov. Irreg.
- Problemy Navigatsionnoi Girokopii.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia; Izdatel'stvo Leningradskogo Universiteta, Leningrad. Irreg.
- Problemy Prochnosti.* Akademiia Nauk Ukrainskoi SSR, Institut Problem Prochnosti; Izdatel'stvo Naukova Dumka, Kiev. M
- Problemy Sluchainogo Poiska.* Akademiia Nauk Latvinskoi SSR, Institut Elektroniki i Vychislitel'noi Tekhniki; Izdatel'stvo Zinatne, Riga. Irreg.
- Problemy Tekhnicheskoi Elektrodinamiki.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Proceedings of Vibration Problems.* Polska Akademia Nauk; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- Progress of Theoretical Physics.* Research Institute for Fundamental Physics and The Physical Society of Japan; Kyoto University, Kyoto. M
- Protective Coatings on Metals (Zashchitnye Pokrytiia na Metallakh).* Consultants Bureau, New York. Irreg.
- Psychonomic Society, Bulletin.* Psychonomic Society, Inc., Austin, Tex. M
- Pulkovo, Glavnaia Astronomicheskaiia Observatoriia, Izvestiia.* Izдание Glavnoi Astronomicheskoi Observatorii, Leningrad. Irreg.
- Pure and Applied Geophysics.* Birkhäuser Verlag, Basel. BM
- Quality Progress.* American Society for Quality Control, Inc., Milwaukee, Wis. M
- Quarterly Journal of Mechanics and Applied Mathematics.* Oxford University Press, London. Q
- Quarterly of Applied Mathematics.* Brown University, Providence, R. I. Q
- \*Radiation Effects.* Gordon & Breach Science Publishers, Inc., New York. Q
- \*Radiation Research.* Academic Press, Inc., New York. 4 vols. per year
- Radio and Electronic Engineer.* Institution of Electronic and Radio Engineers, London. M
- Radio Engineering and Electronic Physics (Radiotekhnika i Elektronika).* Scripta Publishing Corp., Washington, D.C. M
- Radio Research Laboratories, Journal.* Ministry of Posts and Telecommunications, Radio Research Laboratories, Tokyo. BM
- Radio Research Laboratories, Review.* Ministry of Posts and Telecommunications, Radio Research Laboratories, Tokyo. Q
- Radio Science.* American Geophysical Union, Washington, D.C. M
- Radioelektronika.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdatel'stvo Kievskogo Politekhicheskogo Instituta, Kiev. M
- Radiofizika.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdanie Gor'kovskogo Universiteta, Gorki. M
- Radiotekhnika.* Nauchno-Tekhnicheskoe Obshchestvo Radiotekhniki i Elektrosviazi; Izdatel'stvo Sviaz', Moscow. M
- Radiotekhnika i Elektronika.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. M
- Raumfahrtforschung.* Deutsche Gesellschaft für Luft- und Raumfahrt, e.V., Stuttgart, West Germany. BM
- RCA Engineer.* RCA Research and Engineering, Cherry Hill, N.J. Q
- RCA Review.* RCA Research and Engineering, Princeton, N. J. Q
- La Recherche.* Société d'Éditions Scientifiques, Paris. M
- La Recherche Aérospatiale.* Office National d'Études et de Recherches Aérospatiales, Châtillon-sous-Bagneux (Hauts-de-Seine), France. BM
- La Recherche Spatiale.* Centre National d'Études Spatiales; Dunod Editeur, Paris. M
- Remote Sensing of Environment.* American Elsevier Publishing Co., Inc., New York. Q
- Report of Ionosphere and Space Research in Japan.* Science Council of Japan, Ionosphere Research Committee, Tokyo. Q
- Research Management.* Industrial Research Institute, Inc., Interscience Publishers, New York. BM
- Respiration Physiology.* North-Holland Publishing Co., Amsterdam. BM
- Review of Scientific Instruments.* American Institute of Physics, Inc., New York. M
- Reviews of Geophysics and Space Physics.* American Geophysical Union, Washington, D.C. Q
- Reviews on High-Temperature Materials.* Freund Publishing House, Ltd., Scientific Publications Div., Tel Aviv. Q
- Revista Brasileira de Fisica.* Sociedade Brasileira de Fisica, São Paulo, Brazil. 3 issues per year
- Revista de Aeronáutica y Astronáutica.* Ministerio del Aire, Madrid. M
- Revue de Médecine Aéronautique et Spatiale.* Société Française de Physiologie et de Médecine Aéronautique et Cosmonautique; Masson & Cie., Paris. Q
- Revue de Métallurgie.* Paris. M
- Revue de Physique Appliquée.* Société Française de Physique, Paris. M
- Revue Française d'Automatique, Informatique et de Recherche Opérationnelle.* Dunod Editeur, Paris. M
- Revue Française de Droit Aérien.* Société Française de Droit Aérien et Spatial, Paris. Q
- Revue Française de Mécanique.* Société Française des Mécaniciens, Paris. Q
- Revue Générale de l'Air et de l'Espace.* Editions Internationales, Paris. Q



- Revue Internationale des Hautes Températures et des Réfractaires.* Société Nationale Française des Hautes Températures et des Réfractaires; Masson & Cie., Paris. Q
- Revue Roumaine de Mathématiques Pures et Appliquées.* Académie de la République Socialiste Roumaine, Bucharest. 10 issues per year
- Revue Roumaine de Physique.* Académie de la République Socialiste Roumaine, Bucharest. BM
- Revue Roumaine des Sciences Techniques, Série de Mécanique Appliquée.* Académie de la République Socialiste Roumaine, Bucharest. BM
- Revue Scientifique et Technique CECLES/CERS.* Gauthier-Villars, Paris. Q
- Revue Technique Thomson — CSF.* Thomson — CSF, Service de Documentation Technique; Masson & Cie., Paris. Q
- Ricerche Astronomiche.* Specola Vaticana, Vatican City. Irreg.
- Rivista Aeronautica.* Rome. M
- Rivista di Medicina Aeronautica e Spaziale.* Servizio Sanitario dell'Aeronautica, Rome. Q
- Rivista di Meteorologia Aeronautica.* Servizio Meteorologico dell'Aeronautica, Rome. Q
- Rivista Italiana di Geofisica.* Associazione Geofisica Italiana, Genoa. 3 issues per year
- Royal Astronomical Society, Memoirs.* Royal Astronomical Society; Blackwell Scientific Publications, Oxford. 4 issues per year
- Royal Astronomical Society, Monthly Notices.* Royal Astronomical Society, London; Blackwell Scientific Publications, Oxford. M
- Royal Astronomical Society, Quarterly Journal.* Royal Astronomical Society, London; Blackwell Scientific Publications, Oxford. Q
- Royal Astronomical Society of Canada, Journal.* Royal Astronomical Society of Canada, Toronto. BM
- Royal Institution of Great Britain, Proceedings.* Royal Institution of Great Britain; Applied Science Publishers, Ltd., London. Annual
- Royal Meteorological Society, Quarterly Journal.* Royal Meteorological Society, London. Q
- Royal Society (Edinburgh), Proceedings, Section A.* Royal Society of Edinburgh, Edinburgh. Irreg.
- Royal Society (London), Philosophical Transactions, Series A.* Royal Society, London. Irreg.
- Royal Society (London), Proceedings, Series A.* Royal Society, London. Irreg.
- Rozprawy Inżynierskie.* Polska Akademia Nauk, Instytut Podstawowych Problemów Techniki; Państwowe Wydawnictwo Naukowe, Warsaw. Q
- RRE Newsletter and Research Review.* Royal Radar Establishment, Malvern, Worcs.
- \**Rubber Chemistry and Technology.* American Chemical Society, Akron, Ohio. 5 issues per year
- Ruimtevaart.* Nederlandse Vereniging voor Ruimtevaart, The Hague. Q
- SAFE Journal.* Survival and Flight Equipment Association, Canoga Park, Calif. Q
- Samoletoostroenie i Tekhnika Vozdushnogo Flota.* Izdanie Khar'kovskogo Gosudarstvennogo Universiteta, Kharkov. Irreg.
- SAMPE Quarterly.* Society of Aerospace Material and Process Engineers, Azusa, Calif. Q
- SAWE Journal.* Society of Aeronautical Weight Engineers, Inc., Los Angeles. BM
- Schweizerische Technische Zeitschrift.* Schweizer Technischer Verband, Zurich. M
- Science.* American Association for the Advancement of Science, Washington, D.C. W
- \**Science and Public Affairs.* Educational Foundation for Nuclear Science, Inc., Chicago. M
- Sciences et Techniques.* Société des Ingénieurs Civils de France, Paris. M
- Sciences et Techniques de l'Armement (Mémorial de l'Artillerie Française).* Ministère d'Etat Chargé de la Défense Nationale, Paris. Q
- Scientia Sinica.* Science Press, Peking. Irreg.
- Scientific American.* Scientific American, Inc., New York. M
- Scripta Metallurgica.* Pergamon Press, Inc., New York. M
- \**Sedimentology.* Blackwell Scientific Publications, Ltd., Oxford. 4 issues per year
- Seminar po Kraevym Zadacham, Trudy.* Izdatel'stvo Kazanskogo Universiteta, Kazan. Irreg.
- Shell Aviation News.* Shell Oil Co., London. M
- SIAM Journal on Applied Mathematics.* Society for Industrial and Applied Mathematics, Philadelphia, Pa. 8 issues per year
- SIAM Journal on Control.* Society for Industrial and Applied Mathematics, Philadelphia, Pa. Q
- SIAM Journal on Mathematical Analysis.* Society for Industrial and Applied Mathematics, Philadelphia, Pa. 8 issues per year
- SIAM Journal on Numerical Analysis.* Society for Industrial and Applied Mathematics, Philadelphia, Pa. Q
- SIAM Review.* Society for Industrial and Applied Mathematics, Philadelphia, Pa. Q
- Siemens Forschungs- und Entwicklungsberichte.* Siemens Aktiengesellschaft; Springer Verlag, Berlin, West Germany. Q
- Signal.* Armed Forces Communications and Electronics Association, Washington, D.C. M
- Simulation.* Simulation Councils, Inc., La Jolla, Calif. M
- Sinteticheskie Almazы.* Gosudarstvennyi Planovyi Komitet Soveta Ministrov Ukrainskoi SSR; Ukrainskii Nauchno-Issledovatel'skii Konstruktorsko-Tekhnologicheskii Institut Nauchno-Tekhnicheskoi Informatsii i Tekhniko-Ekonomicheskikh Issledovani, Kiev. Irreg.
- Sky and Telescope.* Sky Publishing Corp., Cambridge, Mass. M
- Skyline.* North American Rockwell Corp., El Segundo, Calif. Q
- Slaboproudý Obzor.* Státní Nakladatelství Technické Literatury, Prague. M
- SMPTE, Journal.* Society of Motion Picture and Television Engineers, Inc., New York. M
- Società Astronomica Italiana, Memorie.* Gia Società degli Spettroscopisti Italiani, Milan. Q
- SAE Aerospace Information Report.* Society of Automotive Engineers, Inc., New York. Irreg.
- SAE Aerospace Recommended Practice.* Society of Automotive Engineers, Inc., New York. Irreg.
- SAE Aerospace Standards.* Society of Automotive Engineers, Inc., New York. Irreg.



- Societas Scientiarum Torunensis, Studia, Sectio F — Astronomia.* Societas Scientiarum Torunensis, Torun; Państwowe Wydawnictwo Naukowe, Poznan. Irreg.
- Société Royale des Sciences de Liège, Bulletin.* Société Royale des Sciences de Liège: Université de Liège, Liège. Irreg.
- Société Royale des Sciences de Liège, Mémoires.* Société Royale des Sciences de Liège; Université de Liège, Liège. Q
- Society for Experimental Biology and Medicine, Proceedings.* Society for Experimental Biology and Medicine, New York. 11 issues per year
- Society for Information Display, Proceedings.* Society for Information Display; Western Periodicals Co., North Hollywood, Calif. Q
- Society of Environmental Engineers, Journal.* Society of Environmental Engineers, London. Q
- Society of Experimental Test Pilots, Technical Review.* Society of Experimental Test Pilots, Lancaster, Calif. SA
- \**Soil Science.* Williams & Wilkins Co., Baltimore, Md. M
- Solar Energy.* International Solar Energy Society, Victoria, Australia; Pergamon Press, Ltd., Oxford. Q
- Solar Physics.* D. Reidel Publishing Co., Dordrecht, Netherlands. M
- Solar System Research (Astronomicheskii Vestnik).* Consultants Bureau, New York. Q
- Solid-State Electronics.* Pergamon Press, Ltd., Oxford. M
- Sound and Vibration.* Acoustical Publications, Inc., Cleveland, Ohio. M
- Soviet Astronomy (Astronomicheskii Zhurnal).* American Institute of Physics, Inc., New York. BM
- Soviet Journal of Nondestructive Testing (Defektoskopiia).* Consultants Bureau, New York. BM
- Soviet Journal of Optical Technology (Optiko-Mekhanicheskaya Promyshlennost').* Optical Society of America, Inc., Washington, D.C.; American Institute of Physics, Inc., New York. M
- Soviet Journal of Quantum Electronics (Kvantovaya Elektronika/Moscow/).* American Institute of Physics, Inc., New York. BM
- Soviet Physics — Acoustics (Akusticheskii Zhurnal).* American Institute of Physics, Inc., New York. Q
- Soviet Physics — Doklady (Akademiia Nauk SSSR, Doklady).* American Institute of Physics, Inc., New York. M
- Soviet Physics — JETP (Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki).* American Institute of Physics, Inc., New York. M
- Soviet Physics — Technical Physics (Zhurnal Tekhnicheskoi Fiziki).* American Institute of Physics, Inc., New York. M
- Soviet Physics — Uspekhi (Uspekhi Fizicheskikh Nauk).* American Institute of Physics, Inc., New York. BM
- Space Life Sciences (see Origins of Life).*
- Space Science Reviews.* D. Reidel Publishing Co., Dordrecht, Netherlands. 9 issues per year
- Spaceflight.* British Interplanetary Society, London. M
- SPARMO Bulletin.* Solar Particles and Radiation Monitoring Organization, Meudon (Hauts-de-Seine), France. Irreg.
- Sperry Technology.* Sperry Rand Corp., New York. Q
- Srpska Akademija Nauka i Umetnosti, Glas, Odeljenje Tehnichkih Nauka.* Srpska Akademija Nauka i Umetnosti, Belgrade. Irreg.
- Sterne und Weltraum.* Verlag Bibliographisches Institut AG, Mannheim, West Germany. M
- Strain.* British Society for Strain Measurement, London. Q
- Strength of Materials (Problemy Prochnosti).* Consultants Bureau, New York. Q
- Strojnički Časopis.* Vydavateľstvo Slovenskej Akadémie Vied, Bratislava. BM
- Strolling Astronomer.* Association of Lunar and Planetary Observers, Las Cruces, N. Mex. BM
- Studia Scientiarum Mathematicarum Hungarica.* Akademiai Kiadó, Budapest. Irreg.
- Studies in Applied Mathematics.* MIT Press, Cambridge, Mass. Q
- Studii și Cercetări de Astronomie.* Academia Republicii Socialiste Romîne, Bucharest. SA
- Studii și Cercetări de Fizică.* Academia Republicii Socialiste Romîne, Bucharest. 10 issues per year
- Studii și Cercetări Matematice.* Academia Republicii Socialiste Romîne, Bucharest. 10 issues per year
- Surface Science.* North-Holland Publishing Co., Amsterdam. M
- \**Synthesis.* Georg Thieme Verlag, Stuttgart, West Germany; Academic Press, New York. M
- Tamagawa University, Faculty of Engineering, Memoirs.* Tamagawa University, Faculty of Engineering, Tokyo. Irreg.
- Tech Air.* Society of Licensed Aircraft Engineers and Technologists, Kingston-upon-Thames, England. M
- Technika Lotnicza i Astronautyczna.* Stowarzyszenie Inżynierów i Techników Mechaników Polskich, Sekcja Lotnicza; Naczelna Organizacja Techniczna, Warsaw. M
- Technisch-ökonomische Informationen der zivilen Luftfahrt.* Hauptverwaltung der Zivilen Luftfahrt, Zentralf Flughafen Berlin-Schönefeld, East Germany. M
- Technische Mitteilungen Krupp, Forschungsberichte.* Fried. Krupp GmbH, Essen, West Germany.
- Technische Mitteilungen Krupp, Werksberichte.* Fried. Krupp GmbH, Essen, West Germany. Q
- Technological Forecasting and Social Change.* American Elsevier Publishing Co., Inc., New York. Q
- Technology Review.* Massachusetts Institute of Technology, Cambridge, Mass. 9 issues per year
- Telecommunications and Radio Engineering. Part I — Telecommunications, Part II — Radio Engineering (Elektrosviaz', Radiotekhnika).* Scripta Publishing Corp., Washington, D.C. M
- Tellus.* Svenska Geofysiska Föreningen, Stockholm; Almqvist & Wiksells Boktryckeri AB, Uppsala. BM
- Telonde.* Thomson-CSF, Paris. Q
- Teoriia Funktsii, Funktsional'nyi Analiz i ikh Prilozheniia.* Izdatel'stvo Khar'kovskogo Gosudarstvennogo Universiteta, Kharkov. Irreg.
- Teoriia Veroiatnostei i ee Primeneniia.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. Q



- Teplotfizika i Teplotekhnika.* Akademiia Nauk Ukrain-skoi SSR; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Teplotfizika Vysokikh Temperatur.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
- Teplotnye Napriazheniia v Elementakh Konstruktsii.* Akademiia Nauk Ukrainskoi SSR, Institut Mekhaniki; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Thermochimica Acta.* Elsevier Publishing Co., Amsterdam. BM
- \**Tire Science and Technology.* American Society for Testing and Materials, Philadelphia, Pa.
- Tohoku University, Institute of High Speed Mechanics, Reports.* Tohoku University, Sendai. Irreg.
- Tohoku University, Research Institute for Strength and Fracture of Materials, Reports.* Tohoku University, Sendai. Irreg.
- Tohoku University, Research Institute of Electrical Communication, Reports.* Tohoku University, Sendai.
- Tokyo, University, Faculty of Engineering, Journal, Series B.* Tokyo, University, Faculty of Engineering, Tokyo. Irreg.
- Tokyo, University, Institute of Space and Aeronautical Science, Bulletin.* Tokyo, University, Institute of Space and Aeronautical Science, Tokyo. Q
- Tokyo, University, Institute of Space and Aeronautical Science, Report.* Tokyo, University, Institute of Space and Aeronautical Science, Tokyo. Irreg.
- Tokyo, University, Tokyo Astronomical Observatory, Annals, Second Series.* Tokyo, University, Tokyo. Irreg.
- Tokyo Astronomical Observatory, Tokyo Astronomical Bulletin, Second Series.* Tokyo Astronomical Observatory, Tokyo. Q
- Torino, Accademia delle Scienze, Classe di Scienze Fisiche, Matematiche e Naturali, Atti.* Torino, Accademia delle Scienze, Turin. Irreg.
- Toshiba Review.* Tokyo Shibaura Electric Co., Ltd., Tokyo. BM
- Transporturi Auto, Navale și Aeriene.* Ministerul Transporturilor and Consiliul National al Inginerilor si Technicienilor, Bucharest. M
- TRW Space Log.* TRW, Inc., Redondo Beach, Calif. Annual
- TsAGI, Uchenye Zapiski.* Tsentral'nyi Aero-Gidrodinamicheskii Institut, Moscow. BM
- Tsifrovaia Vychislitel'naia Tekhnika i Programmirovaniie.* Izdatel'stvo Sovetskoe Radio, Moscow. Irreg.
- Tsvetnaia Metallurgii.* Ministerstvo Vysshego i Srednego Spetsial'nogo Obrazovaniia SSSR; Izdanie Severokavkazskogo Gornometallurgicheskogo Instituta, Ordzhonikidze. BM
- Ukrains'kii Fizichnii Zhurnal.* Akademiia Nauk Ukrain'skoi RSR, Kiev. M
- Ukrainskii Matematicheskii Zhurnal.* Akademiia Nauk Ukrainskoi SSR; Izdatel'stvo Naukova Dumka, Kiev. BM
- Ultrasonics.* Iliffe Science & Technology Publications, Ltd., Guildford, Surrey, England. Q
- Unione Matematica Italiana, Bollettino.* Nicola Zanichelli Editore, Bologna. BM
- Universitas Comeniana, Acta Facultatis Rerum Naturalium — Mathematica.* Slovenské Pedagogické Nakladateľstvo, Bratislava. Irreg.
- Upravliaiushchie Sistemy i Mashiny.* Akademiia Nauk Ukrainskoi SSR, Kiberneticheskii Tsentri; Izdatel'stvo Naukova Dumka, Kiev. BM
- Uspekhi Fizicheskikh Nauk.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. M
- Uspekhi Fiziologicheskikh Nauk.* Izdatel'stvo Nauka, Moscow. Q
- \**Vakuum-Technik.* Rudolf A. Lang, Wiesbaden, West Germany.
- \**VDI-Berichte.* Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. BM
- VDI-Forschungsheft.* Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. SM
- VDI-Z.* Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. SM
- VDI-Z Fortschritt-Berichte, Reihe 6 — Energietechnik, Wärmetechnik.* Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. Irreg.
- VDI-Z Fortschritt-Berichte, Reihe 7 — Strömungstechnik.* Verein Deutscher Ingenieure; VDI-Verlag GmbH, Düsseldorf. Irreg.
- Vertiflite.* American Helicopter Society, Inc., New York. BM
- Le Vide.* Société Française des Ingénieurs et Techniciens du Vide, Paris. BM
- Vilnius, Astronomijos Observatorijos, Biuletenis.* Vilnius. Irreg.
- Vision Research.* Pergamon Press, Ltd., Oxford. M
- Voenno-Meditsinskii Zhurnal.* Tsentral'noe Voenno-Meditsinskoe Upravlenie Ministerstva Oborony SSSR; Izdatel'stvo Krasnaia Zvezda, Moscow. M
- Voprosy Dinamiki i Prochnosti.* Rizhskii Politehnicheskii Institut; Izdatel'stvo Zinatne, Riga. Irreg.
- Voprosy Kibernetiki.* Akademiia Nauk Uzbekskoi SSR, Institut Kibernetiki, Tashkent. Irreg.
- Voprosy Teorii Plazmy.* Atomizdat, Moscow. Irreg.
- Voprosy Vychislitel'noi i Prikladnoi Matematiki.* Akademiia Nauk Uzbekskoi SSR, Institut Kibernetiki, Tashkent. Irreg.
- Vychislitel'naia i Prikladnaia Matematika.* Izdatel'stvo Kievskogo Universiteta, Kiev. Irreg.
- Vychislitel'naia Tekhnika i Voprosy Kibernetiki.* Leningradskii Gosudarstvennyi Universitet, Vychislitel'nyi Tsentri; Izdatel'stvo Moskovskogo Universiteta, Moscow. Irreg.
- Wärme- und Stoffübertragung.* Springer Verlag, Berlin, West Germany. Q
- Wear.* Elsevier Sequoia S.A., Lausanne. M
- Weather.* Royal Meteorological Society, London. M
- Wehrmedizinische Monatsschrift.* J. F. Lehmanns Verlag, Munich. M
- \**Wehrtechnik.* Wehr & Wissen Verlags Gesellschaft mbH, Darmstadt, West Germany. M
- Welding Journal.* American Welding Society, New York. M
- Westinghouse Engineer.* Westinghouse Electric Corp., Pittsburgh, Pa. BM
- Wissenschaftliche Berichte AEG-Telefunken.* AEG-Telefunken, Berlin, West Germany. Q



- WMO Bulletin.* World Meteorological Organization, Geneva. Q
- WRC Bulletin.* Welding Research Council, New York. 10 issues per year
- Zagadnienia Drgań Nieliniowych.* Polska Akademia Nauk, Instytut Podstawowych Problemów Techniki; Państwowe Wydawnictwo Naukowe, Warsaw. Irreg.
- Zashchitnye Pokrytiia na Metallakh.* Akademiia Nauk Ukrainskoi SSR, Institut Problem Materialovedeniia; Izdatel'stvo Naukova Dumka, Kiev. Irreg.
- Zastosowania Matematyki.* Polska Akademia Nauk, Instytut Matematyczny; Państwowe Wydawnictwo Naukowe, Warsaw. 3 issues per year
- Zeitschrift für angewandte Mathematik und Mechanik.* Akademie-Verlag GmbH, Berlin, East Germany. M
- Zeitschrift für angewandte Mathematik und Physik.* Birkhäuser Verlag, Basel. BM
- Zeitschrift für elektrische Informations- und Energietechnik.* Akademische Verlagsgesellschaft Geest & Portig, KG, Leipzig, East Germany.
- Zeitschrift für experimentelle und angewandte Psychologie.* Deutsche Gesellschaft für Psychologie; Verlag für Psychologie, Göttingen. Q
- Zeitschrift für Flugwissenschaften.* Deutsche Gesellschaft für Luft- und Raumfahrt, e.V., and Deutsche Forschungs- und Versuchsanstalt für Luft- und Raumfahrt, e.V., Friedr. Vieweg & Sohn GmbH, Braunschweig. M
- Zeitschrift für Geophysik.* Deutsche geophysikalische Gesellschaft, Hamburg; Physica-Verlag, Würzburg, West Germany. BM

- Zeitschrift für Luftrecht und Weltraumrechtsfragen.* Köln, Universität, Institut für Luftrecht und Weltraumrechtsfragen; Carl Heymanns Verlag, KG, Cologne. Q
- Zeitschrift für Metallkunde.* Deutsche Gesellschaft für Metallkunde, e.V.; Riederer-Verlag GmbH, Stuttgart, West Germany. M
- Zeitschrift für Meteorologie.* Meteorologische Gesellschaft; Akademie-Verlag GmbH, Berlin, East Germany. Irreg.
- Zeitschrift für Naturforschung, Teil a.* Verlag der Zeitschrift für Naturforschung, Tübingen. M
- Zeitschrift für Physik.* Deutsche physikalische Gesellschaft; Springer Verlag, Berlin, West Germany. Irreg.
- Zeitschrift für Werkstofftechnik.* Verlag Chemie GmbH, Weinheim, West Germany. 8 issues per year
- Zemlia i Vselennaia.* Akademiia Nauk SSSR; Izdatel'stvo Nauka, Moscow. BM
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- Zpráva VZLÚ.* Výzkumný a Zkušební Letecký Ústav, Prague. Irreg.
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**AIRFOIL THICKNESS**

**U AIRFOIL PROFILES**

**AIRFOILS**

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NT ARROW WINGS  
NT CAMBERED WINGS  
NT CARET WINGS  
NT DELTA WINGS  
NT ELEVATORS [CONTROL SURFACES]  
NT FIXED WINGS  
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NT FLEXIBLE WINGS  
NT HORIZONTAL TAIL SURFACES  
NT INFINITE SPAN WINGS  
NT JET FLAPS  
NT LEADING EDGE SLATS  
NT LIFTING ROTORS  
NT LOW ASPECT RATIO WINGS  
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NT SWEPTBACK WINGS  
NT THIN AIRFOILS  
NT THIN WINGS  
NT TILTING ROTORS  
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NT ACETALDEHYDE  
NT ACETALS  
NT ACETIC ACID

NT ACETYL COMPOUNDS  
NT ACETYLENE  
NT ACRYLONITRILES

NT ADENOSINE TRIPHOSPHATE [ATP]  
NT ADENOSINES  
NT ALKANES

NT ALKENES  
NT ALKYL COMPOUNDS  
NT CARBAMIDES

NT CELLULOSE  
NT CHOLINE  
NT CYANOGEN

NT CYCLIC HYDROCARBONS  
NT DIMETHYLHYDRAZINES  
NT ETHANE

NT ETHYL ALCOHOL  
NT ETHYLENE  
NT ETHYLENEDIAMINETETRAACETIC ACIDS

NT FORMIC ACID  
NT GLUCOSE  
NT GLYCOGENS

NT GUANIDINES  
NT HIPPURIC ACID  
NT HYDRAZINES

NT ISOPROPYL NITRATE  
NT KETONES  
NT LACTATES

NT LACTIC ACID  
NT METHANE  
NT METHYL ALCOHOLS  
NT METHYL COMPOUNDS  
NT NUCLEOSIDES  
NT OCTANES  
NT OXALIC ACID  
NT OXYACETYLENE  
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NT CESIUM IODIDES  
NT SODIUM CHLORIDES

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#### ALKALI METALS

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NT CESIUM ISOTOPES  
NT CESIUM VAPOR  
NT CESIUM 133  
NT LIQUID POTASSIUM  
NT LIQUID SODIUM  
NT LITHIUM  
NT LITHIUM ISOTOPES  
NT POTASSIUM  
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## U COMMINUTION

## AUDIO EQUIPMENT

## NT EARPHONES

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## NT MICROPHONES

## AUDIO FREQUENCIES

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- A method of modeling a bipolar transistor in the linear range of operation  
17 p2399 A74-36529

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## BOW WAVES

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- Dynamically plausible hypotheses of lunar origin  
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## CARBIDES

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- Electrical conductivity and structure of vacuum condensates of carbides of titanium, zirconium, and niobium  
01 p0079 A74-10395

- Nature of strengthening of Fe-Co-W high-speed maraging steels. I - Investigation of the nature of strengthening phases  
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- Constitution of ternary titanium-tungsten-carbon alloys  
02 p0228 A74-12272

- Influence of grain boundary carbide on brittle fracture  
03 p0458 A74-14395

- Effects of residual impurities, carbide precipitation, and carbide stabilization on the toughness of alloy steels  
03 p0383 A74-14420

- Composition and structure of a hardening phase in a V-Zr-C alloy  
04 p0530 A74-15199

- Influence of alloying elements on the hardness and carbide distribution of cast iron with chromium  
04 p0531 A74-15315

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- Fabrication of powders of industrial titanium, zirconium, chromium, and tungsten borides by a boron carbide method  
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- Mechanism of the initial stage of the process of metal carbideization /Survey/  
04 p0538 A74-16193

- Wear resistant aluminum - A new approach: Cast surface composites  
04 p0538 A74-16325

- Preparation of refractory fibers by chemical conversion method  
07 p0974 A74-20739

- Carbide precipitation in a Ni-base superalloy and effect of cold-rolling  
08 p1093 A74-21714

- Effect of annealing on the structure of V-Zr-C alloy  
08 p1095 A74-21773

- Ternary systems of W-Zr-C and W-Hf-C with tungsten-rich regions  
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- Physicochemical analysis of carbide phases in refractory metal alloys  
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- Location of methane and carbide in Apollo 11 and 16 lunar fines  
09 p1182 A74-22906

- Investigation of the carbide phases formed during annealing of the El69 steel using the nuclear gamma resonance method  
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- The effect of the carbide phases on the crack growth of 0.5 pct Mo-B steels under impact, cyclic, and monotonically increasing loading  
09 p1251 A74-24103

- Carbide refining heat treatments for 52100 bearing steel  
11 p1550 A74-26513

- Strengthening of complex alloy steel 30KhGVT by heat treatment  
13 p1816 A74-28579

- Aging of alloys of the Nb-W-Zr-C system  
13 p1817 A74-28946

- Physicochemical analysis of carbide phases in alloys of the tungsten-zirconium-carbon system  
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- The influence of abrasive polishing on the stress state and toughness properties of cemented carbides  
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- Thermophysical properties of transition metal carbides and diborides  
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- Fracture mechanics, statistical analysis and fractography of carbides and metal carbides composites  
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- Principles of wear of superhard materials  
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- Cemented carbides drilling with a CO<sub>2</sub> laser  
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- Directional coupled growth of a modified Inconel 713C alloy  
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- Effect of carbide-forming elements on the properties of chromium and its alloys with rare-earth metals  
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- Aging of Nb-W-Zr-C alloys  
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- Nature of the evaporation of transition-metal carbides  
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- Thermodynamic properties of carbides --- Russian book  
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## CARBOHYDRATE METABOLISM

## NT HYPERGLYCEMIA

## NT HYPOGLYCEMIA

- Acute metabolic and physiologic response of goats to narcosis  
01 p0012 A74-10117

- Factors controlling glycogenolysis and lipolysis during exercise  
01 p0015 A74-10759

- Local energy-supplying substrates as limiting factors in different types of leg muscle work in normal man  
01 p0015 A74-10762

- Limiting factors of anaerobic performance in man -- muscle metabolism during work  
01 p0016 A74-10766

- Liver glycogen as a glucose-supplying source during exercise  
01 p0016 A74-10768

- Dietary carbohydrate increases brain tryptophan and decreases serum-free tryptophan  
04 p0472 A74-15122

- Carbohydrate metabolism and its regulation during hypothermia  
04 p0473 A74-15648

- Carbon metabolism enzymes and ATP in eyes with disrupted innervation  
05 p0610 A74-16739

- Adrenergic beta-receptor blockade and metabolic response to centrifugation stress  
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- Dynamics of changes in the glucose level in the blood and of the lipid concentration in the serum and tissues of rats after chronic exposure to small doses of gamma irradiation  
07 p0891 A74-20571

- Optimization aspects of the cerebro-visceral blood-pressure regulation under the chronic action of combined stressors  
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- Comparative temperature effect estimation during adaptation to cold  
10 p1349 A74-25018

- Time course for refilling of glycogen stores in human muscle fibres following exercise-induced glycogen depletion  
11 p1483 A74-26020

- Heart rate and energy-yielding substrates in blood during long-lasting running  
17 p2382 A74-36398

- Glucose-C/14-U/L metabolism in man after abrupt altitude exposure /4,300 m/  
20 p2805 A74-39795

- Glucose tolerance tests in rats exposed to varying altitude stress  
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- Cerebral glucose metabolism and cerebral blood flow in high-altitude residents  
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- Hematologic and biochemical effects of simulated high altitude on the Japanese quail  
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## CARBOHYDRATES

## NT ADENOSINE TRIPHOSPHATE [ATP]

## NT ADENOSINES

## NT CELLULOSE

## NT CHOLINE

## NT GLUCOSE

## NT GLYCOCENS

## NT NUCLEOSIDES

## CARBON

## NT CARBON ISOTOPES

## NT CARBON 12

## NT CARBON 13

## NT CARBON 14

- Carbon depletion in the envelopes of main sequence stars  
01 p0132 A74-10318

- The possible presence of C<sub>2</sub> lines in sunspot spectra  
01 p0135 A74-10811

- Determination of free carbon in metallic beryllium  
01 p0603 A74-10938

- Investigation of the influence of microadditions of nickel on the mechanical properties of molybdenum and its carbon alloys  
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- Carbon abundance in the atmospheres of hydrogen-poor white dwarfs  
03 p0422 A74-13051

- The measurement of stellar carbon abundances from the CH molecular spectrum  
03 p0423 A74-13064

- The relationship between the structure and electrical resistivity of pyrolytically deposited nickel-carbon films  
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- The influence of carbon on the sulphidation and hot corrosion of Co-Cr alloys  
03 p0386 A74-14576

- Oscillator strengths for 2pnd - 2pn<sup>1</sup>f transitions of C I and identifications in the infrared solar photospheric spectrum /1 to 3 micron wavelengths/  
04 p0574 A74-15840

- The structure, type of fracture, and cold shortness threshold of W-C alloys  
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- Modeling sublimation of a charring ablator  
05 p0726 A74-16721

- Photographic photometry of carbon stars  
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- Opacity effects and the classification of carbon stars  
05 p0697 A74-17120

- Work function variation across the surface of tungsten and vitreous carbon  
05 p0615 A74-17653

- Variable carbon contents of lunar soil 74220  
06 p0841 A74-17902

- A study of the effect of carbon on the properties of NV10TZTs alloys  
06 p0810 A74-18396

- Investigation of conditions for obtaining industrial zirconium diboride by thermal reduction of zirconium and boron oxide mixtures with carbon  
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- Vitreous carbon and the brittle fracture of amorphous solids  
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- An unidentified absorption in the spectra of C-S stars  
08 p1131 A74-21229

- Electron temperature of solar regions where recombination continua are formed - Temperature of carbon emission regions  
08 p1133 A74-21268

- The reducing power of carbon in iron, cobalt, and nickel melts  
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- The solubility of carbon in solid-state nickel  
08 p1095 A74-21766

- Photovisual photometry of semiregular and irregular carbon stars  
08 p1139 A74-21913

- Evaporation deposited chromium-carbon films  
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- Simulated solar wind implantation of carbon and nitrogen ions into terrestrial basalt and lunar fines  
09 p1182 A74-22907

- The distribution in lunar soil of carbon released by pyrolysis  
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- Total carbon contents of Apollo 15 and 16 lunar samples  
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- Carbon chemistry of the Apollo 15 and 16 deep drill cores  
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- Studies of magnetic fines and volatile-rich soils - Possible meteoritic and volcanic contributions to lunar carbon and light element chemistry  
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- Structure and wear resistance of high-carbon chromium-titanium alloys  
10 p1406 A74-24343

- Effects of curvilinear motion in large-amplitude bending of C<sub>3</sub>  
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- A shock tube study of the formation of carbon particles during the pyrolysis of hydrocarbons  
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- Carbon formation in flames - Control by novel catalytic means  
10 p1469 A74-25214

- Dust particles and molecules in the extended atmospheres of carbon stars  
10 p1451 A74-25302



- Measurement of the effective cross section for inelastic interactions of protons with carbon nuclei in the 1 to 1 TeV range on the Proton-4 satellite  
11 p1599 A74-25934
- Study of the solubility of carbon in the alloy Mo + 45% Re  
11 p1562 A74-26794
- Structure and growth mechanism of carbon crystals of various genetic origin  
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- Carbon burning with convective URCA neutrinos --- in stars  
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- An interpretation of the carbon-oxygen to iron ratio  
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- Abundances relative to carbon of the elements silicon to nickel in the galactic cosmic radiation  
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- Structure, type of fracture, and ductile-brittle transition temperature of W-C alloys  
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- The effect of carbon content on mechanical properties of TiC-8Mo2C-15Ni cermet  
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- The volume diffusion of carbon in Fe-17 wt pct Cr-12 wt pct Ni  
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- Formation of C2 molecules in solar atmosphere  
16 p2342 A74-35033
- The effect of alloying with elements of group VIII on the mechanical properties of a molybdenum-carbon alloy in the cast and recrystallized states  
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- Water and carbon in rusty lunar rock 66095  
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- Carbon wastewater treatment process  
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- Carbon detonation supernovae  
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- A study of nucleosynthesis during explosive carbon burning --- in stars  
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- Morphology and crystallography of Widmanstaetten proeutectoid ferrite  
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- Equilibrium segregation of carbon to a nickel /111/ surface - A surface phase transition  
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- Structure and wear resistance of high-carbon Cr-Ti alloys  
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- Study of the effect of microadditions of nickel on the mechanical properties of molybdenum and its alloys with carbon  
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- Spectroscopic observation of the carbon stars Y Canum Venaticorum and U Hydrae in the one-micron region  
22 p3233 A74-44243
- Cooling of dense interstellar clouds by carbon monoxide and carbon atoms  
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- The phase diagram of graphite grains --- granular monatomic gas transition  
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- The wetting of carbon by aluminium and aluminium alloys  
23 p3307 A74-44453
- Radio recombination lines from carbon and possibly heavier elements --- in galactic H II regions  
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- Carbon and iron abundances for thirty F and G type stars  
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- Carbon rod furnace infrared source  
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- Theoretical calculation of solubility of nitrogen and carbon in liquid iron, cobalt, and nickel  
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- Identification of the C2 Phillips system in the solar spectrum  
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- CARBON ARCS**  
Air carbon-arc gouging  
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- The lowering of the spectral series limit of hydrogen and carbon in a plasma  
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- CARBON COMPOUNDS**  
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NT CALCITE
- NT CARBIDES  
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- Interstellar CS - Observations of new transitions and isotopic species, and a study of its excitation  
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- Carbon suboxide on Mars - Evidence against formation  
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- Application of selected methods of remote sensing for detecting carbonaceous water pollution  
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- Carbon chemistry of the Apollo lunar samples  
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- Hartree-Fock bound states for molecule-ions HeC/2+ / and HeC/ + /  
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- CARBON DIOXIDE**  
Physical behaviour of some biowaste gases in an ion engine  
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- Polarizability calculations on water, hydrogen, oxygen, and carbon dioxide  
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- Photochemistry of the Venus atmosphere --- carbon dioxide equilibrium  
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- A canonical equation of state for carbon dioxide  
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- Vibrational relaxation of CO2 by O atoms  
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- Excitation of CO2/ + / by electron impact on CO2  
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- The carbon dioxide cycle - Reservoir models to depict the exchange of atmospheric carbon dioxide with the oceans and land plants  
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- Polar volatiles on Mars - Theory versus observation --- solid carbon dioxide in north residual cap  
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- Calculation of the thermodynamic and transport properties of carbon dioxide  
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- Photoionization of carbon dioxide  
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- Variation of CO2 mass in the atmosphere and polar caps of Mars  
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- Fluorescence of CO2 near 4.3 microns - Application to daytime limb radiance calculations  
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- A shock-tube study of radiation behind shock waves in CO2 with application to Venus entry  
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- Studies on vibrational energy transfer in CO2  
05 p0680 A74-16409
- Heat transfer by free convection from horizontal cylinders to CO2 under near-critical conditions  
05 p0731 A74-17435
- Lack of bacterial survival under Cytherean-oriented conditions  
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- Simultaneous or selective emission of N2O and CO2 in a gas flux laser  
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- Survival of common bacteria in liquid culture under carbon dioxide at high temperatures  
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- Interferometric determination of the refractive index of carbon dioxide in the ultraviolet region  
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- Genetic differences in the ventilatory response to inhaled CO2  
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- Determination of the parameters of the CO2-line contour by the minimization method  
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- Carbon dioxide hydrate and floods on Mars  
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- Relaxation of the asymmetric stretching vibration of CO2 in pure CO2 and in mixtures of CO2 with noble gases  
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- Heat transfer to supercritical helium, carbon dioxide, and water Analysis of thermodynamic and transport properties and experimental data  
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- CO2/001/ and N2 vibrational temperatures in the 50 to 130 km altitude range  
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- Comparison of the far ultraviolet spectra of Venus and Mars  
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- On the interpretation of the 'inverse phase effect' for CO2 equivalent widths on Venus  
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- Formation of electronically excited CO2/ + / in collisions of H/ + /, H, He/ + /, and Ne/ + / with CO2  
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- Reaction of atomic oxygen with carbon dioxide behind reflected shock waves  
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- Formation of inversion in a CO2-H2O-N2 gas mixture jet expanding through a slit  
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- Investigation of the vibrational deactivation of carbon dioxide gas molecules during cooling of the flow in a supersonic nozzle  
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- Cryofrost bidirectional reflectance  
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- Dissociative ionization by electron impact. III --- angular distribution of oxygen, carbon monoxide and carbon ions from carbon dioxide  
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- Boiling crisis at surface with porous coatings  
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- Observation of momentum transfer in rotationally inelastic molecular collisions of CO2 with H2, He, CO2, and Kr  
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- Photodissociation of carbon dioxide in the Mars upper atmosphere  
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- Effect of a small CO2 impurity on the properties of a helium-cesium plasma  
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- Vibrational excitation in CO2 via the 3.8-eV resonance  
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- Equivalent heat-transfer coefficient for radiating gases --- containing carbon dioxide and water vapor  
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- Thermal effect of radiative transfer in the 15-micron CO2 band at heights between 30 and 80 km  
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- Generation of weak shock waves in a shock tube  
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- A direct method of computation of the transmission function of an inhomogeneous gaseous medium. I --- application to atmospheric optics  
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- Exchange of adsorbed H<sub>2</sub>O and CO<sub>2</sub> between the regolith and atmosphere of Mars caused by changes in surface insolation  
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- Mars - The case against permanent CO<sub>2</sub> frost caps  
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- Relationship of alveolar CO<sub>2</sub> and O<sub>2</sub> pressures to AaDo<sub>2</sub> in normal subjects  
20 p2808 A74-40753
- Heat transfer intensity during nucleate boiling in cryogenic fluids and carbon dioxide  
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- Aeronomy of the lower atmosphere of Mars  
22 p3226 A74-43638
- Concerning one ionization instability of a non-self-sustained discharge in mixtures containing CO<sub>2</sub>  
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- Effect of a slight trace of carbon dioxide on the properties of helium-cesium plasma  
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- CARBON DIOXIDE CONCENTRATION**
- The effect of increased metabolic rate and denervation on CO<sub>2</sub> storage in muscle  
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- Thermal freeze-out techniques for carbon dioxide and humidity control in manned spacecraft  
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- Changes in gas composition and blood pH during the stimulation of the hypothalamus  
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U EIGENVALUES  
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U EIGENVALUES  
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CHARACTERISTIC METHOD

U METHOD OF CHARACTERISTICS

CHARACTERS

U SYMBOLS

CHARGE CARRIERS

NT FREE ELECTRONS

NT HOLES (ELECTRON DEFICIENCIES)

NT MAJORITY CARRIERS

NT MINORITY CARRIERS

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NT RESONANCE CHARGE EXCHANGE

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# CHARGED PARTICLES

NT ALPHA PARTICLES  
NT ANIONS  
NT ANTIPROTONS  
NT ARGON PLASMA  
NT ARTIFICIAL RADIATION BELTS  
NT BETA PARTICLES  
NT CATIONS  
NT CESIUM PLASMA  
NT COLD PLASMAS  
NT COLLISIONLESS PLASMAS  
NT CONDUCTION ELECTRONS  
NT COSMIC PLASMA  
NT DEUTERIUM PLASMA  
NT DEUTERONS  
NT ELECTRON PLASMA  
NT ELECTRONS  
NT FERRIC IONS  
NT FREE ELECTRONS  
NT HELIUM PLASMA  
NT HIGH ENERGY ELECTRONS  
NT HIGH TEMPERATURE PLASMAS  
NT HOT ELECTRONS  
NT HYDROGEN PLASMA  
NT INNER RADIATION BELT  
NT MAGNETICALLY TRAPPED PARTICLES  
NT METAL IONS  
NT METALLIC PLASMAS  
NT NEGATONS  
NT NONEQUILIBRIUM PLASMAS  
NT NONUNIFORM PLASMAS  
NT NUCLEI [NUCLEAR PHYSICS]  
NT OUTER RADIATION BELT  
NT PARTONS  
NT PHOTOELECTRONS  
NT PLASMA CLOUDS  
NT PLASMA LAYERS  
NT PLASMA SHEATHS  
NT PLASMA SLABS  
NT POLARONS  
NT POSITRONS  
NT PROTON BELTS  
NT PROTONS  
NT RADIATION BELTS  
NT RAREFIED PLASMAS  
NT RELATIVISTIC PLASMAS  
NT ROTATING PLASMAS  
NT SOLAR ELECTRONS  
NT SOLAR PROTONS  
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NT ALUMINUM ISOTOPES  
NT ALUMINUM 26  
NT ANTIMONY  
NT ARGON  
NT ARGON ISOTOPES  
NT ARSENIC  
NT BARIUM  
NT BERYLLIUM  
NT BERYLLIUM ISOTOPES  
NT BISMUTH  
NT BORON  
NT BORON ISOTOPES  
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NT ATMOSPHERIC MOISTURE

NT ATOM CONCENTRATION

NT CARBON DIOXIDE CONCENTRATION

NT CHEMICAL COMPOSITION

NT CONCENTRATION [COMPOSITION]

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# U DIFFUSION

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U E REGION

E REGION

NT E-2 LAYER

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NT AEROTHERMOELASTICITY

NT ANELASTICITY

NT DYNAMIC MODULUS OF ELASTICITY

NT ELASTOPLASTICITY

NT HYDROELASTICITY

NT HYPOELASTICITY

NT MAGNETOSTRICTION

NT MODULUS OF ELASTICITY

NT PHOTOELASTICITY

NT PHOTOVISCOELASTICITY

NT PROPORTIONAL LIMIT

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[CLEA PAPER 18,5]

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A radar electrooptical processor [ONERA, TP NO. 1357]

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Optical-waveguide connecting networks

Physical properties of displays --- using nematic and cholesteric liquid crystals

Fabrication of integrated optical elements using a computer-controlled electron beam

A graphic method for predicting the time of the sun's passage through the field of view of optical-electronic systems

Some studies of zinc-doped silicon diodes as elements of optoelectronic couplers

Design principles for opto-electronic models of homogeneous biological systems with lateral inhibition and propagating stimulation

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Tracking with head position using an electrooptical monitor

Complex optoelectronic investigation of thermionic emitters prepared from Mo-Pt alloys

Two models for the representation of random brightness fields

Device for recording the position of the light-beam axis

Parameter definition and measurement methods for image dissectors

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Investigation of anomalous dispersion in GaSe, with the aid of self-interference

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Improved contrast uniformity in twisted nematic liquid-crystal electro-optic display devices

Measurement of three-dimensional displacements by scanning a double-exposure hologram

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Intracresonator electro-optical modulation in a CO<sub>2</sub> laser

Electro-optical method of intercorrelational processing for wideband processes up to 1.5 MHz/with relative displacements in time and frequency

Remote measurement of eye direction allowing subject motion over one cubic foot of space

Application of electrooptic calculation methods to detection problems

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An electrooptical method for monitoring two-dimensional formations

Optical processing of anamorphic holograms constructed in an ultrasonic holography system with a moving source and an electronic reference

Movable multi-position integro-holographic devices

Electrooptical gradient-type light deflectors with distributed parameters

Passive cryogenic cooling of electrooptics with a heat pipe/radiator

GaAs-Al<sub>x</sub>Ga<sub>1-x</sub>/As double-heterostructure lasers prepared by molecular-beam epitaxy

Recent advances in optoelectronic displays and materials

Laser beam digital electrooptical deflection

Optical and photoelectrical effects on semiconductor surfaces

Electrooptical deflector designs with controlled total internal reflection angles

Electron-microscope and X-ray study of thermionic emitters made from Mo-Pt alloys

Fixation point measurement by the Oculometer technique

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Frequency-response curve of a light-emitting diode at low signal

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Heterojunctions in the AlAs-GaAs system and devices based on them

Circuit functions of optoelectronic quadrupoles

Potpourri of information display trends --- electro-optical technology assessment

Airborne testing of advanced multisensor aircraft

Use of film waveguides in optoelectronic devices for reading information stored in holograms

Gas discharge displays - A critical review

Optoelectronic data transmission

Fiber optics and flight control systems

Functional elements of integrated optical systems

Nonlinear optical phenomena and materials --- crystal optics

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Ultra-fast streak cameras for laser diagnostics

The influence of the optical electric field on pulsed laser induced damage processes --- in transparent dielectrics

Semiconductor functional devices

Optical data processing methods using incoherent light

Operations, methods, and processing in optical computers

Use of the inverse piezoelectric effect for coherent light modulation

Study of the properties of thermoplastic recording

Theory of structures with optical negative feedbacks based on semiconductors with deep impurities

Registration of the pulses of a Q-switched laser

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Electroacoustic parametric effects in dielectrics

Frequency synthesizer using acoustic surface-wave filters

Surface acoustic wave devices and applications. V - Signal processing using programmable non-linear convolvers

Calculation of probability parameters for flaw detection with the mirror-shadow inspection method

Measurement of the electroacoustic parameters of piezoelectric plates used in ultrasonic flaw detection

A solid-state converter for measurement of aircraft noise and sonic boom

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Design of optimum acoustic surface wave delay lines at microwave frequencies

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Theoretical and experimental study of light deviation by strong acousto-optic interaction. I - Theory

A waveguide transducer of electromagnetic to acoustic waves

VHF/UHF bandpass filters using SAW device technology

Application of the electret effect to miniaturized transducers

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Propagation and conversion of waves in piezoelectric crystals adjoining a plasma

Spurious coupling between length-weighted transducers acoustically connected by means of a multistrip coupler

Condenser-microphone arrays in acoustical holography - A review

Developments in the use of acoustic shock pulses in the study of elastic properties of solids

Noncontact ultrasonic surface wave transducers and their application to nondestructive testing

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Scanning of surface acoustic wave phased array

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A noncontacting method for making stress measurements using magnetic sound

Sidelobe reduction in reflective S.A.W. pulse compressors without external filtering --- Surface Acoustic Wave

Theory of electro-acoustic generation of electromagnetic oscillations in piezoelectric semiconductors

Monolithic programmable tapped delay line /PTDL/ technology for spread spectrum systems

The use of SAW delay line to provide pseudo-coherence in a clutter reference pulse Doppler radar

Acoustic surface wave devices --- technology assessment of bandpass filters and RF oscillators

Surface-wave-acoustoelectric image scanner

Surface acoustic wave devices and applications. VI - Oscillators: The next successful surface acoustic wave device --- at microwave frequencies

High-frequency operation of surface-acoustic-wave multielectrode transducers



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- Calculation of an acoustoelectric surface wave amplifier for the Gigahertz range --- German book 22 p3140 A74-43244

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NT ELECTRIC ROCKET ENGINES  
NT ELECTROSTATIC ENGINES  
NT ELECTROTHERMAL ENGINES  
NT GAS TURBINE ENGINES  
NT HELICOPTER ENGINES  
NT HYBRID PROPELLANT ROCKET ENGINES  
NT HYDRAZINE ENGINES  
NT HYDROGEN OXYGEN ENGINES  
NT INTERNAL COMBUSTION ENGINES  
NT ION ENGINES  
NT J-2 ENGINE  
NT J-47 ENGINE  
NT J-57 ENGINE  
NT J-85 ENGINE  
NT JET ENGINES  
NT LIQUID PROPELLANT ROCKET ENGINES  
NT MICROROCKET ENGINES  
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- The significance of trace elements in cosmochemistry  
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- Cosmochemical problems --- of evolution and composition  
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NT GALACTIC RADIATION  
NT GALACTIC RADIO WAVES  
NT GEGENSCHLEIN  
NT INTERSTELLAR RADIATION  
NT LUNAR RADIATION  
NT PLANETARY RADIATION  
NT PRIMARY COSMIC RAYS  
NT RADIO BURSTS  
NT SOLAR CORPUSCULAR RADIATION  
NT SOLAR COSMIC RAYS  
NT SOLAR ELECTRONS  
NT SOLAR PROTONS  
NT SOLAR RADIATION  
NT SOLAR RADIO BURSTS  
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NT SOLAR WIND  
NT SOLAR X-RAYS  
NT STELLAR RADIATION  
NT STELLAR WINDS  
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NT TYPE 2 BURSTS  
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24 p3441 A74-46346
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- NT GALACTIC RADIO WAVES  
NT RADIO BURSTS  
NT SOLAR RADIO BURSTS  
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NT TYPE 2 BURSTS  
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- Automatic data processing system for linear polarization observations in distributed cosmic radio emission  
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- Size of cosmic masers  
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- Solid-state devices and components for a 60 GHz communication system  
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- GaAs Gunn amplifiers for K and Ka-bands  
06 p0771 A74-18019
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- Descriptions of the polarization states of vector processes - Applications to ULF magnetic fields  
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22 p3162 A74-44202
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23 p3322 A74-44724
- Nonlinear effects in the ELF waves propagating along the magnetic field in the magnetosphere  
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15 p2071 A74-32315
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**EYE [ANATOMY]**

NT CHOROID MEMBRANES

NT CORNEA

NT FOVEA

NT NYSTAGMUS

NT OCULOMOTOR NERVES

NT PUPILS

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NT FLUORO COMPOUNDS  
NT FLUOROCARBONS  
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### FLUTTER

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**NT ELECTRON FLUX DENSITY**

**NT ILLUMINANCE**

**NT IRRADIANCE**

**NT LUMENS**

**NT LUMINANCE**

**NT LUMINOUS INTENSITY**

**NT NEUTRON FLUX DENSITY**

**NT PARTICLE FLUX DENSITY**

**NT PHOTON DENSITY**

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## U GAS GENERATORS

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# GLASS

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- NT ALUMINUM CHLORIDES**
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- NT BORON CHLORIDES**
- NT BROMIDES**
- NT CADMIUM FLUORIDES**
- NT CALCIUM FLUORIDES**
- NT CESIUM IODIDES**
- NT CHLORIDES**
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- NT NITROXYCHLORIDES**
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NT ALUMINUM CHLORIDES

NT ALUMINUM PERCHLORATES

NT AMMONIUM CHLORIDES

NT AMMONIUM PERCHLORATES

NT BORON CHLORIDES

NT BROMIDES

NT BROMINE COMPOUNDS

NT CADMIUM FLUORIDES

NT CALCIUM FLUORIDES

NT CESIUM IODIDES

NT CHLORATES

NT CHLORIDES

NT CHLORINE COMPOUNDS

NT CHLORINE FLUORIDES

NT COPPER CHLORIDES

NT DIFLUORO COMPOUNDS

NT FLUORINE ORGANIC COMPOUNDS

NT FLUORO COMPOUNDS

NT FLUOROCARBONS

NT FLUOROHYDROCARBONS

NT HALIDES

NT HYDROBROMIDES

NT HYDROCHLORIC ACID

NT HYDROFLUORIC ACID

NT HYDROGEN CHLORIDES

NT IODATES

NT IODIDES

NT IODINE COMPOUNDS

NT LITHIUM FLUORIDES

NT LITHIUM PERCHLORATES

NT MAGNESIUM CHLORIDES

NT MAGNESIUM FLUORIDES

NT NICKEL FLUORIDES

NT NITROXYCHLORIDES

NT POLYTETRAFLUOROETHYLENE

NT POTASSIUM BROMIDES

NT POTASSIUM CHLORIDES

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NT CHLORINE

NT FLUORINE

NT IODINE

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NT BERYLLIUM BOROHYDRIDES

NT DEUTERIUM COMPOUNDS

NT HEAVY WATER

NT HYDRIDES

NT HYDROBROMIDES

NT HYDROCYANIC ACID

NT HYDROGEN PEROXIDE

NT HYDROGEN SULFIDE

NT LITHIUM HYDRIDES

NT METAL HYDRIDES

NT PHOSPHINES

NT SILANES

NT ZIRCONIUM HYDRIDES

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U HYDROCYANIC ACID

## HYDROGEN DEUTERIUM OXIDE

U HEAVY WATER

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NT ELECTRON IMPACT

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### NT CESIUM PLASMA

### NT CHARGED PARTICLES

### NT COLD PLASMAS

### NT COLLISIONLESS PLASMAS

### NT COSMIC PLASMA

### NT ELECTRON PLASMA

### NT PLASMA CLOUDS

### NT PLASMA JETS

### NT PLASMA LAYERS

### NT PLASMA SHEATHS

### NT PLASMA SLABS

### NT RELATIVISTIC PLASMAS

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NT BETA PARTICLES  
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NT COSMIC RAYS  
NT FAR ULTRAVIOLET RADIATION  
NT GAMMA RAY BEAMS  
NT GAMMA RAYS  
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NT LYMAN BETA RADIATION  
NT NEAR ULTRAVIOLET RADIATION  
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NT E REGION  
NT E-2 LAYER  
NT F REGION  
NT F1 REGION  
NT F2 REGION  
NT LOWER IONOSPHERE  
NT SPORADIC E LAYER  
NT UPPER IONOSPHERE

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**LAMINAR FLAMES**  
U FLAMES  
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U OPTICAL COMMUNICATION

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### LOCATION

## U POSITION [LOCATION]

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## U LOCKHEED AIRCRAFT

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- An examination of the suitability of holographic low-pass, high-pass and band-pass filters for the recognition of characters featuring a semantically simple structure  
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# LOW PRESSURE

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- Crack nucleation in Fe-3% Si in a hydrogen environment  
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- Cryogenic and low temperature heat pipe/cooler studies for spacecraft application  
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- Effect of varying O2 tensions on chlamydial infection in mice and cell cultures  
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- Effect of cold hands on an emergency egress procedure  
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- Unilateral propagation of helicon waves in n-InSb at microwave frequencies  
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- Thermal properties of dielectric solids below 4 K. I - Polycarbonate  
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- Prospects for obtaining metallic hydrogen with spherical presses  
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- Investigation of the hydraulic resistance in column-type film boiling of an underheated fluid  
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- Precision measurements of the thermal conductivity, electrical resistivity, and Seebeck coefficient from 80 to 400 K and their application to pure molybdenum  
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- Low temperature specific heat of Ni-Co and Ni-Fe alloys  
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01 p0085 A74-10742

- Deformation mechanisms of unalloyed niobium at low temperature /20 to 300 K/  
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- Investigation of the low-temperature behavior of the mechanical properties of the 1201 alloy of higher purity  
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- Low-temperature creep of iron-chromium-nickel alloys  
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- Fracture of aluminum and titanium alloys at low temperatures  
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- Low-temperature field-effect in GaAs with impurity band  
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- Electric and structural properties of low temperature bismuth films  
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- Thermally activated deformation of titanium at low temperatures  
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- The low temperature deformation behaviour of the intermetallic compound Ti3Sn  
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- Investigation of the efficiency of standard tensometers at temperatures down to -269 C  
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- A low temperature calibration equation for carbon resistance thermometers in high magnetic fields  
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- Quasi-brittle failure and strain-state features of nickel-chromium steels cooled to a temperature of -269 C  
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- Thermal properties of hot-pressed cadmium sulfide and hot-pressed magnesium fluoride  
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10 p1408 A74-24528  
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NT ELECTROSTATIC PROPULSION  
NT ION PROPULSION  
NT MAN OPERATED PROPULSION SYSTEMS  
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NT SOLAR PROPULSION  
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**LOWER ATMOSPHERE**  
NT OZONOSPHERE  
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**LOWER BODY NEGATIVE PRESSURE [LBNP]**  
U ACCELERATION STRESSES [PHYSIOLOGY]  
**LOWER IONOSPHERE**  
NT D REGION  
Precipitating energetic electrons in the mid-latitude lower ionosphere  
01 p0057 A74-11509  
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Electric field and current density profiles in the lower ionosphere

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Theoretical models for electron energy relaxation in the lower ionosphere

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Accuracy of rocket measurements of lower ionosphere electron concentrations

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Sheaths and their influence on charged particle measurements in the lower ionosphere

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Analytic approach to the direct and inverse problems for the effect of cosmic rays on the lower ionosphere

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The lower ionosphere of Venus

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Excitation of the earth-ionosphere waveguide by downgoing whistlers. I - Isotropic model. II - Propagation in the magnetic meridian

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## LOX [OXYGEN]

U LIQUID OXYGEN

LOX-HYDROGEN ENGINES

U HYDROGEN OXYGEN ENGINES

## LR CIRCUITS

U RL CIRCUITS

LRC CIRCUITS

U RLC CIRCUITS

LRV [VEHICLE]

U LUNAR ROVING VEHICLES

LSI

U LARGE SCALE INTEGRATION

LST

U LARGE SPACE TELESCOPE

## LUBRICANT TESTS

Solid lubricants for space technology --- high temperature and vacuum environments

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Traction in elastohydrodynamic line contacts for two synthesized hydrocarbon fluids

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02 p0217 A74-12309

On the development of high temperature stainless steel-solid lubricant composites

[ASLE PREPRINT 73LC-4B-1]

02 p0217 A74-12310

Codeposited composite metal-graphite fluoride platings --- lubricating properties

[ASLE PREPRINT 73LC-4B-2]

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[ASLE PREPRINT 73LC-5C-2]

02 p0218 A74-12319

The effect of chemical structure on the load-carrying and adsorption properties of dialkyl phosphites

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Temperature measurements in sliding elastohydrodynamic point contacts

[ASME PAPER 73-LUB-23]

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Elastohydrodynamic film thickness model for heavily loaded contacts

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## U LUMINOUS INTENSITY

## LUMINOUS INTENSITY

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